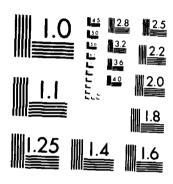
SIMULATION OF CRITICAL MATERIALS RESOURCE STRATEGIES
VOLUME 2 APPENDIX D. (U) TITAN SYSTEMS INC LA JOLLA CA
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DECISION SCIENCE a division of TITAN SYSTEMS, INC.



TITAN-DSI-105800-07-83-5F

SIMULATION OF CRITICAL MATERIALS RESOURCE STRATEGIES

APPENDIR D - DATA BASE VOLUME 2 THROUGH SCENARIO 23

FINAL REPORT

CONTRACT EMW-C-0906

ARTICLE III A

Submitted to: Mr. Michael Pfetsch FEMA

Program Manager Donohoe Building, Room 617 500 "C" Street, S.W.

Washington, D.C. 20472

September 13, 1983

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TITAN SYSTEMS, INC.

9191 Towne Centre Drive (La Jolla Gateway) Suite 500 San Diego, California 92122

(619) 453-9500 postal addresa: P.O. Box 12139 La Jolia, California 92037

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REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1 REPORT NUMBER 2 GOVT ACCESSION NO AD- A157	CO CONTENT'S CATALOG NUMBER
4 TITLE (and Subilitie)	TYPE OF REPORT & PERIOD COVERED
Simulation of Critical Materials Resources	Y. f 1 Demant
Strategies	Informal Report
	5 PERFORMING CRG. REPORT NUMBER TITAN-DSI-105800-83-SF
7. AUTHOR(e)	B CONTRACT OR GRANT NUMBER A
Somerfeld, Dale	ENW-C-0906
9 PERFORMING ORGANIZATION NAME AND ADDRESS	13 PROSHAM ELEMENT PROJECT TASK AREA 6 WORK UNIT NUMBERS
Titan Systems, Inc.	
P.O. Box 12139 La Jolla, California 92037	5261D
11 CONTROLLING OFFICE NAME AND ADDRESS	2 REPORT DATE Sept. 13, 1983
Natural Resources Division, NP-NR-NR	13 NUMBER OF PAGES
FEMA 500 C St., S.W. Washington, D.C. 20472	Approx. 200
10 MONITORING AGENCY NAME & ADDRESS/II different from Controlling Office	15 SECURITY CLASS (of this report)
	Unclassified
	15. DECLASSIFICATION DOWNGRADING SCHEDULE N/A
16 DISTRIBUTION STATEMENT (of this Report)	<u> </u>
APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIN	
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 f controlling ANY Region of any other Media
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Media
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Region
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I/COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
-/COEF 0.0033
edia 3
Region
*/COEF 0.0060 0.0060 0.0060 0.0048 0.0036 0.0024 0.0048
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Region
3/00EF 0.0045 0.0026 0.0013 0.0007
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FORCE ELEMENT IMPORTANCE (LOC 3)

		(E) C C C		
	ELEMENT	FORCE ELEMENT	CALCULATEL!	NORMAL IZETA
RANKING	NUMBER	NAME.	VALUE	VALUE
1	17	CARRIER BATTLE GROUP	0.141	10 000
2 3	1	AIR -MIERDICTION	0.117	-8. ⊈64
3	3	ARMY GROUND	0. 104	7. 381
4	16	ATTACK SUDS	0, 072	5. 197
5	19	SURFACE COMBATANTS	0, 060	4 , 249
6	1.7	THEATER NO LEAR WEAPON	0.054	3 810
7	9	RAPID DEPLOY	0.052	3, 794
8	6	CAS	0.044	$z_{\perp}/12$.
è	14	ASW(LAND BASED)	0. 043	3, 083
10	22	AIR SUPERIORITY (AND BO	(SEI) 0 041	2 913
11		ASW(SEA BASED)	0, 033	2, 315
12	23	ATR SUPERIORITY (SHIP BA	ASEID OLOGIA	ery en en
13	21	AIR DEFENSE (SHIP BASED)	0, 029	2, 065
14	10	STRATEGIC DOMBER	0.025	1. 797
15	25	SPOR BASEL WEAPON (AIR C	N1RL) 6, 020	1.416
16	29	ADAT (SPACE BASED)	0.013	O 924
17	18	1 1 1 1 4 Pr A4 Lu / / 1 Lu 1 / Pr	V V 1	W W/A
18	2	AMPHIE10US ASSAULT		
19	13	SPECIAL OPERATIONS		
20	28	ABAT(LAND BAJED)		
21	20	AIR DEFEMBER(LAND BABED)		
22	9	SPOE-DASED WEAPON(LNI) (
23	30	SMCE BASED WEARON(SEA 0		
24	27	ABM(SPACE BAUED)	0, 000	
25	26	ABM(LANI) BASED)	0, 000	0, 000
26	. 24	INTERCEPTOR AIRCRAFT	0, 000	Q. Q QQ
27	11	SLBM	0, 000	0, 000
28	7	ICEM	0.000	0.000
29	5	CIVIL DEFENSE CBW	0,000	0 . 000
30	4	CBW	0, 000	0.0 00

COMMODITY IMPORTANCE (LOC 3)

COBALT

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AIR INTERDICTION	5. 71
ARMY GROUND	4, 52
CAS	1, 75
ICBM	0.00
STRATEGIC BOMBER	1, 79
SLBM	0.00
ASW(SEA BASED)	1. 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ASAT(LAND BASED)	0.51
	24 99

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- 1	1	N
	1	14

AIR INVERDICTION	5 50
ARMY GROUND	1. 92
CAS	1 91
STRATEGIC BOMMES	1 7:
ASW(LAND BABED)	3 CE
ASW(SEA BASED)	1.11
ATTACK SUBS	5.13
CARRIER BATTLE GROUP	10.60
MINE WARFARE	O. 51
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND DARED)	2.91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCFAFT	$\mathbf{Q} = QQ$
ABM(LAND BASED)	Q, GO
	41 18

### NICKEL

AIR INTERDICTION	5 60
ARMY GROUND	2 02
CAS	1 72
STRATEGIC BOMBER	1.79
ASW(SEA BASEI)	1.74
ATTACK SUBS	5 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	0.89
SURFACE COMBATANTS	4 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2 28
INTERCEPTOR AIRCRAFT	0, 00
	A1 21

### FLUORSPAR ACID

AIR INTERDICTION	7, 12
AMPHIBIOUS ASSAULT	0. 76
ARMY GROUND	3, 69
CAS	2, 05
ICBM	0. 00
STRATEGIC BOMBER	1. 79
SLBM	Q. <b>Q</b> Q
ASW(LAND BASED)	3. 08
ASW(SEA BASED)	1.63
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AJR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0. 00
ABM(LAND BASED)	0. 00
	39, 57

### FYRETHRUM

ARMY GROUND	2, 60
CIVIL DEFENSE	0. 00
ASW(SEA BASED)	0.14
CARRIER BATTLE GROUP	10,00
SURFACE COMBATANTS	4, 25
	17 00

### COMMODITY NORMALIZED IMPORTANCE

NICKEL	10.00	(	41.21)
TIN	<b>9</b> , 99	(	41, 18)
FLUORSPAR ACID	9, 60	(	39, 57)
LOBALT	8,49	(	34 99)
DVDCTHDHM	4 14	1	10 005

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CORALT
6-10
            CAB
                                                     72, 7336
COBRA
            CAS
                                                    48, 4891
-4
                                                    165 5050
            AIR INTERDICTION
            CA^{\prime}
                                                        2734
F-16
            AIR INTERDICTION
                                                     71, 8785
            CAS
                                                     40, 4075
ART. ACRET CAS
                                                      3. 6367
RADIO RLAY AIR INTERDICTION
                                                      3
                                                        2345
                                                      2.
            CAD
F-111
            AIR INTERDICTION
                                                    129, 3813
4-6
            AIR INTERDICTION
                                                     38, 8144
F-15
            AIR INTERDICTION
                                                     57. 5023
A-7
            AIR INTERDICTION
                                                     51, 7525
F-14
            AIR INTERDICTION
                                                     43 1771
F-18
            AIR INTERDICTION
                                                     71, 8785
                                                      6 0775
SH-3
            ASW(SEA BASET)
SH-2
            ASW(SEA BASED)
                                                     15, 1937
SH-60B
            ASW(SEA BASEI)
                                                     23 6346
9-3
            ABW(SEA BABED)
                                                     34, 7284
ATT. SUBS
            ASW(SEA BASED)
                                                     24, 1169
FRIGATES
            ASW(SEA BASED)
                                                     14 4701
DSTROYERS
            ASW(SEA BASED)
                                                      8.6821
M-48
            ARMY GROUND
                                                     37, 94.69
M-60
            ARMY GRUUND
                                                     61 0182
1-1-1
            ARMY GROUND
                                                     67. 7980
M-551
            ARMY GROUND
                                                      0. 2050
M-901
            ARMY GROUND
                                                     54, 2384
M-2/M-3
            ARMY GROUND
                                                     47, 4504
M-113
            ARMY GROUND
                                                      5. 2732
MLRS
            ARMY GROUND
                                                     20 3394
TOWER ART.
            ARMY GROUND
                                                     27, 1192
SELF-PROP.
            ARMY GROUND
                                                     36, 1589
PERSHING
            ARMY GROUND
                                                     18,0797
            ARMY GROUND
GL OMB
                                                     30, 1324
INFANTRY
            ARMY GROUND
                                                      7, 5331
MORTERS:
            ARMY GROUND
                                                     36, 9122
ROLES LINCH ARMY GROUND
                                                      1, 5920
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NORMALIZED VALUES F-111	F-16	F-4	A-10	F-18	Ξ- <u>Ε</u>	1	ı	M-901	A-7	COBRA	M-2/M-3	F-14	A-4	M-48	MORTHRO	SELF-PROP.	e-0	GLCMS	OWED AR	$\omega$	+	<u>"</u>	PERSHING	_			INFONTRY		RADIO HLAY	M-113	AFT, ALPET		I'

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TIN
A-10
            CAS
                                                    72, 7336
COPRA
            CAS
                                                    64, 6521
F-4
            AIR INTERPIOTION
                                                   103,5050
            CAE
                                                     7, 2734
F-16
            AIR INTERDICTION
                                                    71, 6785
            643
                                                    40 4075
ART. AURET CAN
                                                     3. 6367
RADIO RLAY AIR INTERDICTION
                                                     3, 2345
            07.5
                                                     2, 7275
            AIR INTERPTOTION
                                                   129, 3913
F-111
A-6
            AIR INTERDICTION
                                                    43, 6562
F-15
            AIR INTERDICTION
                                                    57 0023
A-7
                                                    51, 7525
            AIR INTERDICTION
F-14
            AIR INTERDICTION
                                                    49 5190
F-18
            AIR INTERDICTION
                                                    80, 8633
94-3
            ASR(SEA BASED)
                                                     5, 2093
일본구글
            ASKI(SEA BASEI)
                                                    13,0231
SH-60E
            ASW(SEA BASED)
                                                    20, 2582
8-3
            ABWISEA BASED)
                                                    34, 7294
ATT. SUBS
            ABW(SEA BASED)
                                                    14.4701
FRIGATES
            ABW(SEA BASED)
                                                    14, 4701
DETROYERS
            ASW(SEA BASED)
                                                     8, 6821
M-48
            ARMY GROUND
                                                     4, 2185
M-60
            ARMY GROUND
                                                     6 7793
M-1
            ARMY GROUND
                                                    37, 6655
M-551
            ARMY GROUND
                                                     0. 071B
M-901
            ARMY GROUND
                                                     6, 7798
M-2/M-3
            ARMY GROUND
                                                     6, 7793
M-113
            ARMY GROUND
                                                     0.7533
MLRS
            ARMY GROUND
                                                    10.1697
TOWED ART.
            ARMY GROUND
                                                     4, 5199
SELF-PROP.
            ARMY GROUND
                                                     6,0265
PERSHING
            ARMY GROUND
                                                    15, 8195
GLCMS
            ARMY GROUND
                                                    26, 3639
INFANTRY
            ARMY GROUND
                                                    60, 2649
                                                     5, 2732
MORTERS
            ARMY GROUND
ROLES LNCH ARMY GROUND
                                                     0.2260
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NORMALIZED VALUES

F-111	10, 0000
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INFANTRY	
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MORTERS	
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NICKEL		
A-10	CAS	72 7336
COBRA	CAS	45 45 1
F-4	AIR INTERDICTION	77. 6288
	CAS	5, 4550
F-16	AIR INTERDICTION	71 8785
	9A5	40, 4075
ART. ACRET	CAS	2, 4245
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2 7275
F-111	AIR INTERDICTION :	129 3813
A-6	AIR INTERMICTION	SF 8144
F-15	AIR INTERDICTION	57, 5023
A-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	48, 5180
F-18	AIR INTERDICTION	80 8633
9 <b>H</b> +3	ASM(SMA BASED)	と やきシア
9H-2	ASW(SEA BASEL)	17, 3642
SH-40B	ASW(SEA BASED)	27, Q10°
9-3	ASW(SEA BASEL)	34, 7284
ATT, SUDS	ABW(BEA BABED)	43. <b>4</b> 104
FRIGATES	ASW(SEA BASED)	26, 0463
DSTROYERS	ASW(SEA BASED)	<b>15. 627</b> 9
M-48	ARMY GROUNI)	42 1854
M-60	ARMY GRUUND	<b>67. 79</b> 80
11-1	ARMY GROUND	75, 3311
M-551	ARMY GROUND	0.7533
M-901	ARMY GROUND	47 4586
M-2/M-3	ARMY GROUNT	54 2384
M-113	ARMY GROUND	5, 2732
MLRS	APMY GROUND	20 <b>3</b> 394
TOWELL ART.	ARMY GROUND	36, 1589
SELF-PROP.	ARMY GROUND	48, 2119
PERBHING	ARMY GROUND	18, 0795
GLOMS	ARMY GROUND	22, 5993
INFANTRY	ARMY GROUNI)	37, 6655
MORTERS	ARMY GROUND	15 8193
ROLES LNOH	ARMY GROUNI	0, 2260

NORMAL IZED VALUES

3974 3974 3421 22.27 8705 4216 2605 000**0** 9112 7948 8042 82070 0 0.40% 25.00 7478 7263 741.7 6216 2402 0000 35.55 7730 8224 4404 1899 1551 01:10 8 6787 HUNCH CHER RATION REAY ART ACHET SELF-PROP. M-901 ATT. SUBS INFANTRY TOWED ART S-3 DETROYERS SH-60B FRIGATES GLCMS MLRS PERSHING MORTERS M-2/M-3 A-7 M-11-M COBEA F-111 CH-Ho M-48 F-14 (* <del>1 + .</del> F-16 ⊕1 <u>- H</u> Q-10 09--W F-IS F--4 Z-E

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FLUORSPAR ACID
                                                      90. 9170
A-10
            CAB
                                                      47 4791
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            \mathbb{C}\cap \mathbb{F}
            AIR INTERDICTION
                                                     129, 2513
            CAS
                                                       9 0917
F-16
            AIR INTERPORTION
                                                      89 9491
            ÇA:
                                                      50,50,24
ART, ACRET CAS
                                                       3 6367
RADIO RLAY AIR INTERDICTION
                                                       3, 2343
            CAS
                                                       2, 7275
F-111
            AIR INSERDICTION
                                                     161. 7166
A-6
            AIR INTESTIGATION
                                                      49 5180
F-15
            AIR INTERDICTION
                                                      71 8785
A-7
            AIR INTERDICTION
                                                      64 6906
F-14
            AIR INTERDICTION
                                                      53 900 ~
F-18
            AIR INTERDICTION
                                                      89, 8481
\mathbb{S} H = \mathbb{R}
            ASK(SEA BASEL)
                                                       6.9457
SH-2
            ASW(SEA BASED)
                                                      17, 3642
FHHADE
            ABW(SEA BASEI)
                                                      23 7637
8-3
            ASW(SEA BASED)
                                                      43, 4104
ATT. SUBS
            ASM(SEA BASEID)
                                                      23, 9400
            ASW(SEA BASED)
FRIGATES
                                                      20, 2582
DETROYERS
            ASW(SEA BASED)
                                                      12 1549
            ARMY GROUND
M-48
                                                      12, 6506
M-60
            ARMY GROUND
                                                      20, 3394
M-1
            ARMY GROUND
                                                      22, 5993
M-551
            ARMY GROUND
                                                      0. 2240
M-901
            ARMY GROUND
                                                      54, 2384
M-IZ/M-3
            ARMY GROUND
                                                      54 2384
            ARMY GROUND
M-113
                                                       6,0245
MLRS
            ARMY GROUND
                                                      16, 9495
TOWED ART.
            ARMY GROUND
                                                      22, 5993
SELF-PROP.
            ARMY GROUND
                                                      30 1304
PERSHING
            ARMY GROUND
                                                      15, 8195
GLOMS
            ARMY GROUND
                                                      26, 3659
INFANTRY
            ARMY GROUND
                                                      60 2649
MURTERS
            ARMY GROUND
                                                      26, 3609
RCLES LNCH ARMY GROUND
                                                       0.2260
```

NORMALIZED VALUES

																		1, 397	1, 257	1, 252	1. 073						ಶಲೆಲೆಲೆ	တ်တ်လံလ်	်စ်စ်စ်စစ	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
! !	<b>A-1</b> 0	F-18	F-13	A-7	NEANT	-2/14-	106-M	F-14	A-6	COBRA	ტ - ტ	H-60	ELF-	Ë	ORTE	LCMS	3	¥-1		٠.	1	 ш.	M-40	U		11-3 -11	11-3 -113 9010	ม-3 -113 คับโก	보기를 되는	

### PYRETHRUM

ATT SUBS	ASW(SEA BASED)	14, 4701
M-48	ARMY GROUND	ជំនា ៦៣១៩
M-60	ARMY GROUNT	47 4566
M-112	ARMY GROUND	. 5 2732
TOWED ART.	ARMY GROUND	31,6390
SELF-PROP.	ARMY GROUND	42, 1854
INFANTRY	ARMY GROUND	75. 3311
MORTERS	ARMY GROUND	36, 9123

### NORMALIZED VALUES

INFANTHY	10, 0000
M-60	<b>6</b> , 3000
SELF-PROP.	5. 6000
MORTERS	<b>4</b> , 9000
TOWED ART.	4, 2000
M-48	3, 9200
ATT, SUBS	1, 9209
M-113	<b>0. 7</b> 000

ALL COMMOI	JITIES	
A-10	CAS	3, 0912
COBRA	CAS	2.1012
F-4	AIR INTERDICTION	4 1402
	CAS	0. 2909
F-16	AIR INTERDICTION	3, 0548
	CAS	1 7173
ART. ACRET	DAS	0 1333
RADIO RLAY	AIR INTERDICTION	0. 1294
	CAS	0.1091
F-111	AIR INTERDICTION	5. 4997
A-6	AIR INTERDICTION	1 6981
F-15	AIR INTERDICTION	2.4439
A-7	AIR INTERDICTION	2, 1995
F-14	AIR INTERDICTION	1. 9407
F-18	AIR INTERDICTION	3, 2345
SH-3	ASW(SEA BASED)	G 2519
SH-2	ASW(SEA BASED)	0. 6295
SH-60B	ASW(SEA BASED)	1 0467
9-3	ASW(SEA BASED)	1.4760
ATT, SUBS	ABW(SEA BASED)	1 2541
FRIGATES	ASW(SEA BASEI)	0. 7524
DSTROYERS	ASW(SEA BASED)	0.4515
M-48	ARMY GROUND	1, 2656
M-60	ARMY GROUND	2 0339
M-1	ARMY GROUND	2, 0339
M-551	ARMY GROUND	0.0123
M-901	ARMY GROUND	1, 6272
M-2/M-3	ARMY GROUND	1, 6272
M-113	ARMY GROUND	0, 2260
MLRS	ARMY GROUND	0. 6780
TOWEL ART.	ARMY GROUND	1, 2204
SELF-PROP.	ARMY GROUND	1, 6273
PERSHING	ARMY GROUND	0 6780
GLOMS	ARMY GROUND	1. 0546
INFANTRY	ARMY GROUND	2, 4106
MURTERS	ARMY GROUND	1, 2128
ROLES LNOH	ARMY GROUND	0. 0226

8, 6787 8, 0587 5, 887 5, 6216 4, 4444 8213 6909 9555 9555 Q: 80 6838 0000 65569 6842 3016 2807 2017 0010 L1000 ヤルソミ 0082 40.25 2080 2020 2104 1447 01/0 0/11/1 V. AB. 7 NORMALIZED VALUES F-111 PALIFE TRUE RADIO RUAY AFT AFF SELF-PROP. M-2/M-3 M-901 S-3 TOWED ART. MORTERS DSTROYERS Selic SH-40B FRIGATES A-10 F-15 Infantry PERSHING SHOUSE A-7 COBRA ≥11-H M-48 ?~H€ : -H M-60 M. R. F-16 F-18 F-14 ATT. A-6 F-4 M-1

### CRITICALING OF SHOETFALL

ALL FERS (LOC 3)

ž.		E Adr.	SHORT		F.E.	-	The state of the s
	G-0741	FILLE	FALL	TRAT : -	CMUDITY	CRITIC-	FL. DIFA L
COMMODITY	(UNITS)	CUNTED	C% )	LATEII	IMPORT.	ALITY	CESTION INV
BALT	85.4	43 8	<b>-</b> 49 7	402 5	8. 5	3418.1	7 A
<u>.</u> 14		1860 4		$G_{i}(0)$	10.0	Q. O	6. 6.
TOKIEL	200 0	32 0	<b>-</b> 8:_ ⊽	427.7	10. O	4377.1	٠
MORSEAR ACID			-34.1	361일, 항	9, 6	9744 B	É i
RETHRUM	500.0	Q. O	-1⊖© Ø	<b>4</b> 58 8	4.1	1880.7	4 🗇

COMPOSITE IMPORTANCE (LOC Y)

### COLALT

		AMOUNT	% (#F	COMPOSITE		
PURCE		SUPPLIED	TOTAL	IMPORTANCE	1701	%(1/0.1)
NLAND		1370.	7. 71	1. 92	0. 520	4 (1)
ORDDOQ		450.	2. 57	1.56	0. 667	1 715
OTSWANNA		250	1.43	0.71	1.402	i difi
UTH AFRICA		150.	0.56	1. 15	0. 841	0.701
IRE		POGG	51, 43	ō. 71	1.404	71 183
AME:IA		3500	20.00	0.71	1 404	ຊຊົ ອີກີລີ
CILIFFINES		50	0.25	0. 92	1, 007	0.010
<b>MSTRALIA</b>		400.	2 2:	0.92	1 087	2 4 3
EW CALEDONIA		250.	1 43	0. 92	1 087	1. 55.3
<u>AN</u> ADA		1100.	6, 29	2.89	O. 346	2 175
្ទ		<b>1</b> €600),	5 71	2, 54	O. 391	2, 234
•	TOTAL.	17500.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

### TIN

		AMOUNT	% OF	COMPOSITE		
JURCE		SUPPLIED	TOTAL.	IMPORTANCE	1/01	%(1/CI)
USTRALIA		100.	0. 15	0, 92	1. 087	0.161
୍ର		16100.	23, 82	2, 56	0. 391	9.319
AILAND		5900.	8. <b>7</b> 3	0, 92	1. 087	<b>୨. 4</b> ରଞ
NDONESIA		5800.	8, 58	0, 92	1. 087	9. 322
Y .		100.	0.15	1, 96	0. 510	0. 075
LIVIA		10300.	15, 24	0, 98	1. 020	15, 549
AZIL		2400.	3, 55	0, 86	1. 162	4, 125
RC		3000.	4. 44	2. 47	0. 405	1. <b>7</b> 94
LAYSIA		<b>2</b> 3900,	35, 36	0, 92	1. 087	38, 414
•	TOTAL:	67600.	100. 00			

## COMPOSITE IMPORTANCE (LOG 3)

7	Angelo	r % OF	COMPOSITE		
Cource	91-F11	EO TOTAL	IMPORTANGE	E 1/CI	5.61/21
FINLAND	1000.	0. 33	1. 92	0. 520	0.171
SOUTH AFRICA	5000	1, 64	1. 19	0.841	1.381
CHILIPPINES	5000	1. 64	0.92	1, 087	1 780
AUSTRALIA	25500	8 21 °	0. 92	1, 097	£. 524
CANADA	1 Toje si 10	49, 28	2. 영영	Q 345	17 05-2
<b>7</b> 8	<b>8</b> 8000.	28, 91	2, 56	O. 391	11.30
PEECE	600	Q. 20	1. 95	0, 510	0.0203
NETHERLANDS	200.	0.07	1, 96	0, 510	0 034
TRG	100	$O \cap O \subseteq$	1.55	O. 510	O COS
UBOSLAVIA	<b>5</b> 00	0.46	1.96	0.510	$C_{i} \in \mathbb{R}^{n}$
USSR	5000.	1.64	0, 94	1 061	1.74%
DOM REPUB	15000	4 93	1.53	0. 656	2 020
LUATAMALA	4000	1.31	1.53	0.656	0.851
INDONESIA	<b>5</b> 000,	1.64	0.92	1, 087	1, 780
	TOTAL - 304400	. 100.00			

COMPOSITE IMPOSTANCE (E(e) 3)

### FLUORSPAR 4.01D

		AMOUNT	% OF	COMPOSITE		
SOURCE		SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/01)
MOUTH AFRICA		180.	22 36	1 19	O. 841	18 903
MOUTH AFRICA No s		<b>7</b> 0.	8 70	2 56	0, 391	3 401
ITALY		<b>6</b> 0.	8. 07	1. 96	0.510	4, 120
SFAIN		100.	12.42	<b>i</b> . 96	0.510	6 335
AST AFRICA		25.	3.11	0.71	1.404	4 354
THAILAND		15.	1.86	0. 92	1, 087	2, 025
MEXICO		350.	43, 48	2 56	0.391	17, 01 t
	TOTAL:	805.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

### **PYRETHRUM**

OURCE		AMOUNT SUPPLIED 2000.	% OF TOTAL 1, 01	COMPOSITE IMPORTANCE 1.19	1/CI 0. 841	%(1/61) 0 852
AUSTRALIA		1500.	0.76	0. 92	1. 087	0, 825
19K		11000.	5, 57	1.96	0. 510	2, 842
LENYA		80000.	40, 51	0. 71	1. 404	54, 805
RWANDA		25000.	12.66	0.71	1. 404	17 767
TANZANIA		78000.	39, 49	0. 71	1. 404	<b>5</b> 5 <b>4</b> 33
	TOTAL:	197500.	100.00			

SOURCE IMPOSTANCE (LOC 3)

so ros	%(1/CT)	FEZSHORTFALL CRITICALIT:	Total	NORMALIZED TO 100
FINLAND MURDOCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	4 012 1, 715 2, 005 0 721 72, 185 28 072 0, 210 2, 483 1, 552 2, 175 2, 236	7, 81 7, 81 7, 81 7, 81 7, 81 7, 81 7, 81 7, 81 7, 81	31, 33 13 <b>40</b> <b>15 66</b> 5, 63 563, 70 219, 22 2 42 19, 38 12, 12 16, 99 17 4,	5:56 12:33 2:78 1:00 100:60 33:44 6:43 3:44 2:15 3:01 3:10
TIN AUSTRALIA U S THAILAND INDONESIA UN DOLIVIA ERAZIL PRO MHLAYSIA	0. 161 9. 319 9. 483 9. 322 0. 075 13. 540 4. 125 1. 796 38. 414	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	6 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0 00	0 00 0 60 0 00 0 00 0 00 0 00 0 00 0 00
FINLAND SOMEH AFRICA PHILIPFINES AUSTRALIA CANADA U S SETUCE N HELLANDS F YUGUMLAVIA USSR DOM. REPUBL GUATAMALA INDONESIA	0. 171 1 381 1. 785 8 924 17. 054 11. 311 0 101 0. 034 0. 017 0 084 1. 742 3. 230 0. 861 1. 785	16 00 10 00	1, 71 13, 81 17, 85 89, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 82, 30 8, 61 17, 83	0 30 2.40 3.17 15 80 20 25 20 07 0.18 0.06 0.03 0.15 3.09 5.73 1.53 3.17
FLUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	28 53 5, 16 6, 25 9, 62 6, 61 3, 07 25, 82
YRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA EWANDA TANZANIA	0, 852 0, 825 2, 842 56, 855 17, 767 55, 433	4, 30 4, 30 4, 30 4, 30 4, 30 4, 30	3, 66 3, 55 12, 21 244, 29 76, 34 238, 18	0, 65 0, 63 2, 17 43, 34 13, 54 42, 25

### SOURCE IMPORTANCE KANNED BY SOURCE (LOC 3)

1			
- #	SOURCE	COMMISSION	VALUE
1	2A1RE	COBALT	100, 00
7.7	KENYA	FYHETHKUM	43 34
M	TANZANIA	FYRETHRUM	42, 25
4	ZAMEIA	CORALT	ଓଡ଼ <b>, ୧</b> ନ
15	CANADA	NICHEL	30, 25
6	SOUTH AFRICA	FLUGRSPAR ACID *	28, 53
7	MEXICO	FLUOPSPAR ACID	25, 82
	US	NICKEL	20, 07
<b>-</b> 9	AUSTRALIA	NICKEL	15, 83
0	RWANDA	FYRETHRUM	13, 54
11	SPAIN	FLUORSFAR ACID	9. 62
1.2		FLHOROPAR ACID	6.41
3	ITALY	FLUGESPAR ACID	8, 25
14	DOM. REPUB.	NICKEL	5. 73
	FINLAND	COPALT	5 56
	PIMERME US	FLUORSPAR ACID	5.16
	O S AUSTRALIA		3.44
1.6		DOBALT	3, 17
18	INDUNENIA	NICHEL	3.17
	PHILIPPINES	NICKEL	
LO.		CORALY	3 10 6 60
21	USSR	NICHEL	3. 09
51.00	THAILAND	FLUGHERAR ACID	3 07
3	CANADA	COBALI	9. 61
<i>≟</i> 4	BOTSWANNA	COBALT	2.78
25	SOUTH AFRICA	NICHEL	2.45
<b>5</b> 6	MOROCCO	CORALT	<b>2</b> . 33
	UH:	FYRETHRUN	2.17
28	NEW CALEDONIA	COBALT	2, 15
79	GUATAMALA	NICKEL	1.53
(Q)	SOUTH AFRICA	COBALT	1, 00
31	SOUTH AFRICA	PYRETHRUM	0. 65
32	AUSTRALIA	PYRETHRUM	O. 61
<b>#</b> 3	PHILIPPINES	COBALT	Q. 43
_4	FINLAND	NICKEL	<b>o</b> . 30
35	GREECE	NICKEL	0.18
16	YUGOSLAVIA	NICHEL	O. 15
:7	NETHERLANDS	NICKEL	0.06
38	FRG	NICKEL	0.03
100	MALAYRIA	TIN	0.00
0	PRC	TIN	0.00
41	BRAZIL	TIN	0.00
42	BOLIVIA	TIN	0. 00
3	UK	TIN	0.00
4	INDONESIA	TIN	0.00
45	THAILAND	TIN	0.00
			<b>0</b> . <b>0</b> 0
-6	US	TIN	0. 00
1.17	AUSTRALIA	TIN	O. QQ

SCENARIO 13

```
WEIGHTS on REGION by LEVEL of CONFLICT and MEDIS
                   Level of Conflict 3 Media 1
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Region.
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                         7 0
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                 10.0
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I/CÓEF 0.1784 0.1784 0.1250 0.0893 0.1250 0.0357 0.0357 0.0913 0.0913
                  Level of Conflict 3 Media 2
          1
Region
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Weight
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ÚZZOBER 0.1883 0.1883 0.1974 0.1974 0.383 0.6433 0.0747 0.0133 0.1047 0.041.
1/00EF 0.1200
                   Level of Conflict 9 Media 3
Region
         10.0
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Weight
I/COEF 0.1786 0.1786 0.1786 0.1788 0.1429 0.1071 0.0714 0.1412
                   Level of Conflict 3 Media 4
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              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
              or the Importance of Controlling EACH region within its own their
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Region
Media 11
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1/8QEF 6.0171 0 0171 0.0154 0.0068 6.0119 0 0685 0 0017 0.0136 0 0119 0 0015
I/COEF 0.0154
1edia
Region
1/COEF 0.0228 0.0228 0.0228 0.0183 0.0137 0.0091 0.0183
ledia 4
 Region
I/COEF 0.0752 0.0301 0.0150 0.0075
 Importance of controlling AMY Region
within its Media as compared to the Importance
of controlling ANY Region of any other Media
 deduce 1
                                                                8:
 Region
1/CDEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0050 0.0020 0.0060
Media 2
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                                                                              10
 Region
            1
                   2
Media 11
Region
 ://COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
1/COEF 0.0033
Media 3
 1/COEF 0.0040 0.0040 0.0040 0.0048 0.0036 0.0024 0.0048
Media 4
                    2
Region
MICUEF 0.0065 0.0026 0.0013 0.0007
```

# FORCE ELEMENT IMPORTANCE (LCC 3)

	ELEMENT	FORCE ELEMENT	CALCULATED	NORMALIZED
RANFINE	NUNDER	NAME	VALUE	VALUE
1	17	CARPIER BATTLE GROUP	0.141	$TQ_{ij}$ $Q_{ij}$ $q_{ij}$
2	1	AIR INTERDICTION	0. 117	
3	3	AFTY GEOUNI	0 104	
4	- •	ATTACK SUBE	0 072	• -
5	155	SUPFACE COMEATANTS	0, 660	
6	$12^{\circ}$	THEATER NILLEAR WEAPON	0, €54	3 <b>8</b> °.
7	8	RAPID DEFLEY	O. Ohi	
8	Ŀ.	CAS	0, 044	3 102
9	1-4	ASU(LAND BACEI)	0,043	
10	22	ATR SUPERTOFITY (LAND BA	SED) 0 041	
<b>!</b> !	15	ASWISEA BAIELD	0.033	
12	23	AIR SUPERIORITY (SHIP BA		
13	21	AIR DEFENSE(SHIM BASEL)		
14	10	STRATEGIC BOMBER	0.025	
15	25	SPCE BASED WEARON(AIR C		
16	29	ASAT (SPACE BASED)		- ·
17	18	MINE WARFARE	0.013	•
18	2 13	AMERIETOUS ASSAULT	0.011	
19		SPECIAL OPERATIONS	0.010	· -
20	23	ASAT(LAND BASED)	0.007	•
21	20	AIR DEFENSE (LAND) BASED)		
<u>-</u>	9	SPORTBAGED WEATON (LND C		
23	30	SECE MASEIN WESE OF (SEA C		-
24	27	ABM(SHAIE BASED)	$\mathbf{Q} = \mathbb{Q} \oplus \mathbb{Q} \oplus \mathbb{Q}$	-
200	25	APM(LANT BASEI)	Çi Çidhiri	=
26	24	INTERCEPTOR AIRCRAFT	Q QQQ	-
27	11	SURM	Ď, ĐƠĐ	• • •
<b>7</b> #	7	TORY	<u> 0. 519</u>	- ·
29	-	CIVIL DEFENSE	<b>0. 0</b> 00	
HO	4	CBM	Q. QQD	$\mathbf{O} = \mathbf{O} \cap \mathbb{C}$

# COMMUDITY IMPORTANCE (LOC 3)

1	n'	F:/	11	7

AIR INTERDICTION	5, 71
ARMY GROUND	4, 52
CAS	1.75
ICBM	Ģ. QQ
STRATEGIC BOMBER	1. 79
SLBM	0, 00
ASW(SEA BASED)	1, 27
CARRIER BATTLE GROUP	10, 00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0, 00
ABAT(LAND BASED)	Q 51
	54 99

### TIN

AIR INTERPICTION	50
FOMM GROUND	1, 92
CAR	1. 0:
STRATEGIC BO TILR	1. 7%
ABW(LAND BAHED)	3. C3
ASW(SEA BASEL)	1.11
ATTACK SUPS	5.13
CARRIER BATTLE GROUP	$-1$ $\odot$ $\sim$ $\sim$
MINE WARFANE	O. 0.1
SURFACE COMLATANTS	4, 25
AIR SUPERIORITY (LAND BASED)	2 91
AIR SUPERIORITY(SHIP BASED)	2, 20
INTERCEFTOR AIRCRAFT	0.00
AZM(LAND FABEI)	0.00
	41 15

### NICKEL

AIR INTERDICTION	5 60
ARMY GROUND	4.92
©A5	1 72
STRATEGIC BOMBER	1.79
ASW(SEA BASEI)	1.71
ATTACK SUBS	5.43
CARRIER BATTLE GROUP	10.00
MINE WARFARE	O. 89
SURFACE COMERTANTS	4 25
AIR SUPERIORITY(LAND BASED)	2, 94
AIR SUPERIORITY(SHIP BASED)	2 20
INTERCEPTOR AIRCRAFT	O OO
	41. 21

#### FLUORSPAR ACID

AIR INTERDICTION AMPHIBIOUS ASSAULT ARMY GROUND	7, 13 0, 76 3, 69
CAS ICBM	2, 05
STRATEGIC BOMBER	1. 79 0. 00
ASW(LAND BASED) ASW(SEA BASED) CARRIER BATTLE GROUP	3, 08 1, 63 10, 00
SURFACE COMBATANTS AIR SUPERIORITY(LAND BASED)	4, 29 2, 91
AIR SUPERIORITY(SHIP BASED) INTERCEPTOR AIRCRAFT ABM(LAND BASED)	2, 23 0, 00 0, 00
FIGURES BUT HIS ON BUT FINISH OF F	90 F.7

### PYRETHRUM

2, 49
Q. QO
0.14
$10^{\circ} (e)$
<b>4</b> , 25
17.08

### COMMODITY NORMALIZED IMPORTANCE

NICKEL	10.00	(	41 217
Tita	9,99	(	41.18)
FLUORISPAR ACID	9, 60	(	39, 57)
COBALT	S. <b>4</b> 9	(	34. 99)
FYRETHRUM	4.14	(	17, 08)

COBSET		
A-10	CAS CONTRACTOR CONTRAC	72 7336
CUEKA	CAS	48 4841
F-4	AIR INTERNICTION	103 5000
	UHL	7. 27:54
F-16	AIR INTERDICTION	71 8785
	4.4%	41 4375
ART, ACRET		9 6367
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2, 7275
F-111	AJE INTERMITTION	129, 3813
A-6	AIR INVESTIGATION	38, 8144
F-15	AIR INTERPICTION	57, 5023
A-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERFICTION	43 1271
F-18	AIR INTERDICTION	71,8785
8H-3	ASW(SEA BAHFD)	6 0770
당세~요"	ASW: SEA BASEID	15 1937
SH-60B	ASW(SEA BASEI)	23, 6346
	ABW(BEA BABEL)	34 77:4
	ASW(SEA BASED)	24, 1165
FRIGATES	ASW(SEA BASED)	14 47 51
DSTRUYERS	ASW(SEA BASED)	8 6821
M-48	ARMY GROUND	37 りんどう
M-60	ARMY GROUND	61 0102
M-1	ARMY GROUND	67. <b>7</b> 990
M-951	ARMY BROUND	0.21~~
M-903	ARMY GROUND	54, 2334
M-2/N-3	AFMY GROUND	<b>47. 45</b> 86
11-113	ARITY GROUND	5 2732
MLF3	ARMY GROUND	20 33 /4
	ASMY GROUND	27 1192
SELF-PRUF.	ARMY GROUND	36, 1569
FEFSHIKE	APMY GEQUED	18, 07%
GUETE	AFM: GROUND	30 1324
	ARMY GROUND	7, 5331
MORTERE	ARMY GROUND	38 9122
FIGLES LINER	ARMY GROUND	1, <b>5</b> 820

		1, 5721 1, 3974 1, 1743 1, 1194 0, 6710 0, 5822 0, 4607 0, 4607 0, 4607 0, 7011 0, 7011
NORMALIZED VALUES F-111 F-14 F-4 A-10 F-18 M-1	 M-48 MORTERS SELF-PROP. SLCMS TOWED ART. ATT. SUBS	

TIN		
A-10	CAS	71 7331
ÇILLE FÇÊ.	<b>C4</b> %	69 6521
F-4	AIR INTERDICTION	103 5050
	CAS	7 2734
F-16	ATR INTERDICTION	71 9795
	ŭSe	40 4075
ART. ACRET	CAS .	3 <b>6</b> 36 <b>7</b>
RADIO RLAY	AIR INTERDICTION	3 73 <b>4</b> 5 2 7175
	CA9.	
F-111	AIR INTERDICTION	129, 3813
A-6	AIR INTERDICTION	<b>4</b> 3 <b>6</b> 662
F-15	AIR INTERDICTION	57 5028
A-7	AIR INTERDICTION	51 7525
F-14	AIR INTERDICTION	<b>4</b> 8, <b>5</b> 180
F-18	AIF INTERDICTION	왕이, 영송원당
SH-3	ASW(SEA BASED)	<b>5</b> . 2093
SH-2	ASW(SEA BASED)	19 0271
5H-6OB	ASW(SEA BASED)	20, 2582
5-3	ASW(SEA BASED)	34, 7284
ATT, SUBS	ASW(SEA BASEI)	14 4701
FRIGATES	ASW(SEA BASED)	14, 4701
DSTROYERS	ASW(SEA BASED)	8, 6801
M-43	ARMY GROUND	4, 2185
M-60	ARMY GROUND	6.77° £
M-1	ARMY GROUNDS	37 6630
M-DGI	ARMY BROUND	Q. 07UB
M-901	ARMY GROUND	<i>6.</i> 7798
M-2/N-3	ARMY GROUND	<b>6. 7</b> 798
M-113	ARMY GROUND	0, 7533
MLRS	ARMY GROUND	10, 1697
TOWED ART.	ARMY GROUND	4, 5199
SELF-PROF	ARMY GROUND	£, 0243
PERSHING	ARMY GROUND	15, 8195
GLOMS	ARMY GROUND	<b>2</b> 6, 3659
INFANTRY	ARMY GROUND	60 2649
MORTERS		<b>5. 27</b> 32
	I ARMY GROUND	0, 2260

0000	8, 6787	0,0452																													0.0175	
NIGRMALIZED VALUES	F-16	4-	F-18	A-10	COPRA	INFANTRY	F-15	A-7	F-14	A-A	- Ι- Σ	ტ ქ	SMUTS	SH-60B	PERSHING	FRIGATES	ATT, SUBS	SH-2	MLKS	DSTROYERS	8-W/2-W	106-M	M-A.O	n	RADIO RLAY	17	87 <del>-11</del> 3	TOWER ART	ART ACMET	** - -	FILES LINEH	<u></u>

NICKEL		
A-10	CAS	72 7316
C.O.L.E.T	CAS	49 49 1
F-3	AIS INTERICATION	77. 6215
	CAE	5. 45%0
F-13	AIR INTERDICTION	71 8785
	1, 4 -	4 4 1
AFT. ALREI	CAS	2. 4245
RADIO RLAY	AIR INTERPICTION	3 2349
	CAS .	2, 7275
F-111	AIR INTERDICTION	129, 3813
4-6	AIR INTERDICTION	38, 8144
F-15	ALR INTERDICTION	57. 502d
A-7	AIR INTERDICTION	51, 7525
F-34	AIR INTERDICTION	48, 5180
F-18	AIR INTERDICTION	80, 8633
\$H-3	ABU(HEA BABFI)	6,9457
SH-2	ABW(BEA BABED)	17, 3642
SH-AOB	ASW(SEA BASED)	27 0109
9-3	ABW(SEA PASED)	34, 7284
ATT, SUBS	ASW(SEA BASED)	43 4104
FRIGATES	ASW(SEA BASED)	26, 0463
DETROYERS	ABW(SEA BABED)	15, 6278
M-43	ARMY GROUND	42, 1854
M-60	ARMY GROUND	<b>67. 79</b> 80
M1	ARMY GROUND	75. 3311
M-551	ARMY BROTHER	0.75
M-901	ARMY GROUND	47, 4586
M-2/M-3	ARMY GROUND	54, 2354
M-113	ARMY GROUNT	5, 2732
MLF	ARMY GROUND	20, 3394
TOWED ART.	ARMY GROUNI:	36, 1589
SELF-FROM.	ARMY GROUND	48, 2119
PERBHING	ARITY GRÖUND	18, 0795
GLOMS	ARMY GROUND	<b>22</b> , <b>5</b> 993
INFANTRY	ARMY GROUND	37, 6655
MORTERS	ARMY GROUND	15, 8195
ROLES LNOH	APMY GROUND	0. 2260

4216 2500

NORMALIZED VALUES

F-111

F-16 F-4 F-18

822**4** 6216 2402

A-10 M-60 F-15

M-1

4444

1551

M-2/M-3

A-7 F-14

0000 7500

COBRA SELF-PROP. M-901

4, 0000 3, 7500 3, 7500 3, 5681 3, 3552 3, 2600 2, 9112 2, 7948 2, 6842 2, 6842 2, 0877

ATT. SUES M-48 A-6 INFANTRY

HUWED ART

10

SH-60B FRIGATES

2277 2020

3074

MI RE PERSHING

SM 2.16

MURTERS

+ +

1 . 1

744.7

*7.1.4.B 47.000 4074

HAMIL SALA

ART ACKET

М--1.1.3

HADDED BLAY DOTEOVERS SIE-3

FLUORSPAR A	ACID	
A-10	CAS	90, 9170
CUERA	CAS	4만 4만당
F-4	AIR INTERDICTION	129 3813
	CAS	9 0917
F-16	AIR INTERMICTION	89 848 <b>1</b>
	CAS	50 5094
ART. ACRET	CAS	3, <b>6</b> 36 <b>7</b>
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2. 7275
F-111	AIR INTERPICTION	161, 7266
A-6	AIR INTERDICTION	48,5180
F-15	AIR INTERDICTION	<b>71</b> .8785
A-7	AIR INTERDICTION	64 6906
F-14	AIR INTERDICTION	53, 908 <i>8</i>
F-18	AIR INTERDICTION	89.8481
SH-3	ASW(SEA BASED)	6, 9407
SH-2	ASW(SEA BASED)	17, 3642
SH-60D	ABW(SEA BABELD)	33 <b>7</b> 607
S-3	ASW(SEA RASED)	43 4104
ATT. SUBS		28 9403
FRIGATES		20, 2582
DSTROYERS	ABW(SEA BASED)	12, 1543
M-48	ARMY GROUND	12.6556
M-40	AFMY GROUND	20 3354
M-1	AFMY GEOUND	22, 5093
M-551	ARMY OROUND	0. 2240
M-901	ARMY GROUNI	54, 2384
M-2/M-3	ARMY GROUND	54, 2334
M-113	ARMY GROUND	<i>8</i> , 0265
MLRS	ARMY GROUND	16, 9490
TOWED ART.	ARMY GEOUND	<b>2</b> 2, 5993
SELF-PROP	ARMY GROUND	30. 1324
PERSHING	ARMY GROUND	15, 8195
GLOME	ARMY GROUND	26, 3659
INFANTRY	ARMY GROUND	60, 2649
	ARMY GROUND	<b>2</b> 6. <b>36</b> 59
RCLES LNCH	ARMY GROUND	0. 2260

8, 5622 5, 6216 5, 5576 4, 4414 3333 9982 6842 7895 6303 6303 3974 3974 2576 2526 0737 97/32 0.7516 0.4295 0000 7263 3537 3537 0480 0877 2632 0, 3636 0.7825 NORMALIZED VALUES F-111 POLES LINCH PETST RADIO FLAY SH-KOB SELF-PROP. ATT. SUBS MORTERS GLCMS TOWED ART. FIFE DSTROYERS INFONTRY M-2/M-3 M-901 F-14 A-6 COBRA M-40 FRIGATES MLRS PERSHING M-110 M-40 0-10 F-15 A-7 F-16 F-4 A-10 F-13 SH-2 **PHT** (1) (0) -----

### FYRETHFUM

ATT SUES	ABN/FEEA EASED)
M-49	ARMY GROUND
M-90	ARMY GROUND
M-113	ARMY GRUCHID
TUWELL ART.	ARCTY GROUND
SELF-PRUP	ARMY GROUND
INFANTRY	ARMY GROUND
MOSTERS	ARMS GROUNT

### 14 47.1

4.5	D256
47.	4596
	,-, <del>-</del> ,,

### 5 2732 31,6380

### 42 1994

### 75 3311 33 9122

#### NORMALIZED VALUES

MURHALIZED ANTOLO	
INFANTRY	40,0000
M-60	<b>6</b> . 3000
SELF-PROF.	5 4000
MURTERS	<b>4</b> , 9600
TOWED ART.	<b>4</b> , 2000
M-48	3,9200
ATT SUBS	1 9200
M-113	0, 7000

```
ALL COMMODITIES
            CAS
                                                     3, 0912
A-10
                                                     2 101.
            CAE
COBRA
F-4
            AIR INTERBIOTION
                                                     4 1402
            LAE
                                                     0. 2909
F-16
            A15
                INTERMICTION
                                                       0548
            CAE
                                                       7173
ART. ACRET CAS
                                                     0.1333
RADIO REAY AIR INTERDICTION
                                                     0.1294
                                                       1091
            045
                                                     Q.
F-111
                                                     5, 4937
            AIR INTERDICTION
            AIR INTERPLOTION
                                                       6981
A-6
                                                     1
                                                       4439
F-15
            AIR INTERDICTION
                                                     2
A-7
            AIR INTERDICTION
                                                       1995
            AIR INTERDICTION
F-14
                                                     1. 9407
F-18
            AIR INTERDICTION
                                                     3
                                                       2345
                                                       2518
SH-3
            ASW(SEA BASED)
SH-2
            ASW(SEA BASED)
                                                     0 6225
                                                     1. 0447
SH-60B
            ASW(SEA BASED)
8-3
            ASW(SEA BASED)
                                                     1.4760
                                                       2541
ATT.
            ASW(SEA BASED)
    SULE
                                                     0.7524
            ASW(SEA BASED)
FRIGATES
DSTROYERS
                                                     0.4515
            ASW(SEA BASED)
M-48
            ARMY GROUND
                                                       2656
                                                     2 0339
M-60
            ARMY GRUUND
            ARMY GROUND
                                                     2, 0339
11-1
                                                     0.0179
            ARMY GROUND
M-551
                                                       6272
M-901
            ARMY GROUND
            ARMY GROUND
                                                     1.6272
M-2/M-3
            ARMY GROUND
                                                     0. 2260
M-113
MLRE
            ARMY GRUUND
                                                     0 6780
TOWED ART.
            ARMY GROUND
                                                     1, 2204
                                                     1 6272
SELF-PROP
            ARMY GROUND
                                                     0.6780
PERSHING
            ARMY GROUND
                                                     1. 0546
GLCMS.
            ARMY GROUND
                                                     2,4106
INFANTRY
            ARMY GROUND
            ARMY GROUND
                                                     1, 2123
MURTERS.
ROLES LNCH ARMY GROUND
                                                     0.0226
```

VORMAL IZED VALUES

9592 9592 9592 8592 8016 2807 2194 9100 9035 3635 2330 2330 1417 3839 0000 8713 6989 6989 5294 0882 8824 6216 4444 74.5 44000000000000000000000 HAPITE REAY 77.1 SH-2 DOTROYFRS SELF-FROP. M-2/M-3 M-901 Sams TOMED ART FRIGATES PERSHING INFANTRY MORTERS 5 BH-KOB 3LCMS COERA -111 M-60 0-0 **Ω-4**0 M.R.  $\frac{\omega}{1}$ A-10 14 -16 ATT 4-6 <u>-</u>E

### CRITICALITY OF SHORTFALL

ALL FEYS (LOC 3)

İ		STOCK	SHEET.		FE/		Million I inti
	<u>G</u> OA!	PILE	FALL	TRANSH	CMCITTY	CRITIC-	ត្រូប ភេទព្ <u>រួ</u>
COMMODITY	(UNITED	CONSTREA	1757	LOTED	হুলা হৈছল	ALITY	•
SSALT	£1 4	44.30 91	-4:. 7	402.5	85	3419.1	• ,
IIN	42 0	1966	953 S	O O	10.0	$\mathbf{c} = \mathbf{c} \cdot \mathbf{c}$	Ch. I
MICKEL	200. 0	32 2	-ଛଞ୍ଚ	437. <b>7</b>	10.0	4377 1	$1 \oplus \phi$
LUORSFAR ACID	1400 O	ବ୍ୟପ୍ତ ଦ	-F. 1	319 9	e 6	3744 3	€ é
YRETHRUM	500 0	$\circ \circ$	-1000	<b>45</b> 3 만	4 1	1880 7	4 .

COMEOSITE IMPLETANTE (LOC S)

COPALT

status perceta em	AMOUNT	*. (IF)	COMPANY INC.		• • • • •
OURCE	SUPPLIED		IMPORTABLE	1 1 T	• 1 1 1 1 1 h
INLANIC	1350	4, AB	1. 위기	0.500	1 127
IOROCCO	<b>4</b> 50.	2.14	1.50	0 667	1 42 -
OTSWANNA	<b>25</b> %	1.15	0.71	1 4 4	1 47 1
WUTH AFRICA	150.	0.71	1 12	₩ 1.41	G 6
AIRE	<b>9000</b> ,	40.8A	0. 7 <b>1</b>	1 204	1 7 7
AME IA	BUSE	14 67	0.71	<u> 1</u> 2, 1, 0	<u> </u>
HILIFFINES	50.	$\circ$ $\mathbb{L}^{2}$	G 91	1 000	4 <u>2</u> 1
USTRALIA	<b>4</b> 00	1 90	$\mathbf{o}_{-}$ $\mathbf{e}_{>}$	1 007	
PEW CALEBONIA	25 h	1 15	O 92	1 OEC	• • •
ANAIG	1.1(90).	5, 24	7. 完一		1 711 3
រែង	<b>4</b> 5000	21, 43	2 56	O. 394	হু সংখ্
	TOTAL 21000	100.00			

COMPOSITE IMPORTANTS (LOC 3)

		~			
halaysia -	23900.	35, 36	0. 92	1. 087	38 414
RC	3000.	4.44	2. 47	Q. 405	1 794
FRAZIL	2400.	3, 55	0.86	1. 162	4 129
BOLIVIA	10300.	15. 24	0, 98	1. 020	13 54
K	100.	0.15	1, 96	0.510	0.075
NDONESIA	5800.	<b>8</b> . 58	0. 92	1. 087	9 (3012)
THAILAND	5900.	8. <b>7</b> 3	0. 92	1. 087	후, 4동국
, s	16100.	23, 82	2, 56	0 용약1	원, 종1억
USTRALIA	100.	0.15	0.92	1.087	0.161
: POURCE	AMOUNT SUPPLIED	% OF TOTAL	COMPOSITE IMPORTANCE	1/01	%(1/°I)

TOTAL: 67600. 100.00

### COMPOSINE IMPOSTANCE (LOC 3)

### NICHEL

	40 00	% OF	COMPLESSIE	-	
	电压 医红色红色	TLINE	IMFOF LANCE	120 I	1.64 . 1 .
FINLAND	1 C 10D	0.33	1, 92	O 520	0.474
/ DUTH AFRICA	5000	1 69	1 19	0 841	$1 = \mathbb{F} \oplus 1$
'-1LIPPINES	500	1 . 64	. 0.92	1. OF7	1
AUSTRALIA	<b>2</b> 7660	8, 21	O 위기	1.007	
SANADA	150000	4° 23	<u>.</u> €	Q. 341	$\sum_{i=1}^{n}   f_{i}   \leq  f_{i}  $
	$\{((j),(i,j)\}$	고의 보1	2, 54	O 391	11. 311
GARLOE	6.10	0.20	<b>1</b> . ⊕ c	O. 510	O 100
NE THERLANDS	200	0.07	1. 84	0.510	0 044
1 8/3	1000	O = O	$\mathbf{I} = \Phi_{i,1}$	( St. 1	The American
: GasLavia	$\mathbb{T}_{a}(\mathbb{D}_{1})$	Q. 1 ±	1 9/4	(A - 2(2) D	Quit,
USSR	5000	1 64	0, 94	1. 064	1.741
COMMITTEE FOR	150000.	4. 약골	1 59	0 636	
JATAMALA	<b>4</b> (00)	1.31	1. 등록	0. 656	$C_{i} \in \mathbb{R} \cup \mathbb{I}$
INDUNETIA	5000	1.64	o. 92	1.087	1 75 -

COMPOSITE IMPOSTANCE (LUC 3)

### FLUCROFAH ACII)

T61AL: 804400 100.00

SOURCE JUTH AFRICA JOS		AMOUNT SUPPLIED 190 70.	% OF TOTAL 22 34 8:70	COMPOSITE IMPORTANCE 1.19 2.56	1/01 0,841 0,391	%(1701) 18 71. 2 <b>4</b> 02
ITALY PAIN AST AFRICA THAILAND MEYICO		65. 100. 25. 15. 350	8 07 12, 42 3, 11 1, 86 43, 48	1, 96 1, 96 0, 71 0, 91 2, 56	0 510 0 510 1.404 1.087 0 001	4,170 4,231 4,310 2,020 17,01
	TOTAL:	805.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

### FYRETHRUM

OURCE SOUTH AFRICA AUSTRALIA IK ENYA RWANDA TANZANIA	AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000.	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 39, 49	COMPOSITE IMPORTANCE 1: 19 0: 92 1: 96 0: 71 0: 71 0: 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01) 0 802 0 820 2 842 56 850 17 767 50 438

TOTAL: 197500. 100.00

# SOURCE IMPORTANCE (LOC 3)

SO WCE	%(1/01) 500% INF	FRISHORTFALL CRITICALITY		ORMALIZED 33 Jan
FINLAND MURDOCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	3 343 1 427 1 671 0 601 60 154 23 353 0 259 2 070 1 253 1 813 3 364	7.81 7.81 7.81 7.81 7.81 7.81 7.81 7.81	26 11 11.16 13.05 4.69 469.75 18.2 68 2.01 16.16 10.10 14.16 10.47	5.5. 2.79 1.00 100 0 0 38 8 0 43 3 44 2 15 3 01 33 78
TIM AUSTRALIA U S THAILAND INDONESIA UH BOLIVIA BRAZIL ERC MHLAYSIA	0, 141 9 319 9, 483 9, 322 0 075 15, 543 4 125 1, 794 36, 414	0 00 0, 00 0, 00 0 00 0 00 0 00 0 00 0	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0 (00) 0 (00) 0 (00) 0 (00) 0 (00) 0 (00) 0 (00)
FINLAND SOUTH AFRICA FHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB GUATAMALA INDONESIA	0, 171 1, 381 1, 785 8, 904 17, 054 11, 311 0, 101 0, 034 0, 017 0, 084 1, 742 3, 230 0, 841 1, 785	10, 00 10, 00	1, 71 13, 81 17, 85 89, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 32, 30 8, 61 17, 85	0.34 94 980 980 980 980 980 90 17 13 180 380
FLUORSPAR ACID SOUTH AFRICA U S ITALY SFAIN FAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8 55 8 55 8 50 8 55 8 55 8 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	34, 24 6, 20 7, 50 11, 54 7, 94 3, 69 30, 98
FYRETHRUM SQUTH AFRICA AUSTRALIA UK EENYA EWANDA TANZANIA	0, 852 0, 820 2, 842 56, 850 17, 767 55, 433	4, 30 4, 30 4, 30 4, 30 4, 30 4, 30	3, 66 3, 55 12, 21 244, 29 76, 34 233, 18	0, 78 0, 79 2, 60 52, 00 16, 25 50, 70

### SOURCE IMPOSTANCE RANGED BY SOURCE (LC) 3)

.#	SOURCE	COMMODITY COEA.T DIFETHIOM PYRETHIOM	VALUE
	ZAIPE	0054. T	100.00.
	FENYA	的GETETO/M	52.Q0
3	TANZANIA	PYRETHRUM CODALY NICHEL	50.70
1.4	7AMP TA	$000m_{-}$	경종 중위
5	CANADA	NICHEL	36 30
6	SOUTH AFRICA	NICHEL Fluch For Actr	£4 24
7	MEXICO	FLUTTISHAR ATTI	90 91
ខ	ប្ទ	NICHEL	24 07
9	AUSTRALIA	NICKEL PYRETHRUM	14 - QC
O.	RWHNIA	FYRETHRUM	16 (6) 16 (25)
1	U ÷	<u> </u>	
2	SPAIN	FLUDFA-AL ACII	11.79
13	SFAIN EAST AFFICA TIALY	FLUGERAR ALID	ଅ, ବୟ
4	ITALY	FLIGHTEFAR A. (II)	7 50
5	DOM: REPUT	NICKEL	6. 88
6	ប្ទ	FLUCHSFAR ACID	6 20
7	FINLAND	COBALT	5, 54
ŀ₽	INDONESIA	NTCFEL	
9	PHILIPFINES	NICHEL	명. <b>말</b> 아
<b>2</b> 0	USSR	Macket	3 71
5678901 34547890123456	THAILAND COSTRACIA CANADA SOUTH AFRICA	FLUODEPAR ACID	3. 5 P
	<b>的特別的工作。</b>	<u> </u>	3, 67
23	CANADA	CONALT	3, 01
24	SOUTH AFRICA	NICHFL	2. G1 5. 30
	EG12MHM.*H	Laber Market	2 78
26	UI Morkoddo	FYEETHAUE	2 60 2 38
27	Mostocco	COBALT	2.38 2.10
[-3	NEW CALEDONIA		1, 83
	GUATAMALA	NICHEL	1, 65
80	SOUTH AFRICA	COBALT	0.78
1	SOUTH AFRICA	EYRETHRUM	0. 73
=	AU: (RALIA	PYRETHRUM	0. 43
<u> </u>	FHILIFFINES	COEALT	0, 34 0, 34
-4	FINLAND	NICHEL NICHEL	0. 21
7	GREECE	NICKEL	0, 18
	YUGOBLAVIA		0. 07
<b>67</b>	NETHERLANDS FRG MALAYSIA	NICKEL NICKEL	0. 07
3	FRU	TIN	0.00
		TIN	0.00
40 *1	PRO	TIN	0.00
1	BRAZIL	TIN	0, 00
2345 445 47	BOLIVIA	TIN	0. 00
7	UK	TIN	0.00
<b>1</b> 4	INDONESIA	TIN	0. 00
	THAILAND	TIN	0.00
	U S AUSTRALIA	TIN	0.00
$\Gamma'$	HUDIRHEIM	1 414	4. 44

SCENARIO 14

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WEIGHTS on RESIDN by LEVEL of CONFLICT and MEDIA
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 769EF 0.5882 0.2053 0 1174 0 0583
              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
              or the importance of Cortrolling EATH region mathin its own Moli.
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IZCOEF 0.0171 0.0171 0.0154 0.0068 0.0119 0.0080 0.0017 0.0136 0.0119 0.0080
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I/COEF 0.0752 0.0301 0.0150 0.0075
 importance of controlling ANY Region
within its Modia as compared to the Importance
of controlling ANY Region of any other Media
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1/00EF 0.0033
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DI/COEF 0,0040 0,0040 0 0040 0,0048 0,0034 0,0024 0,0048
Media 4
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Region
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/1/COEF 0.0065 0.0026 0.0013 0.0007
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## FORTE ELEMENT INFORTANCE (EDC 3)

	ELEMENT	FORCE ELEMENT	CALCULATED	NORMALIZED
RAN IN	14.1 3-24	1.30%	VA_UE	₩AL! 1
1	17	CAR-1ER BY TILE GROUP		
2	1	ATH INTERPORTION	0.117	8 2 1
3	3	APTY GROUNI	0.104	7 3 2
4	1.6	ATTACK HUBB	0.072	5 1 %
5	1 🖘	SUR PACE COMEATALITS	0.060	4 24
Ŀ	1	THEATER NULLEAR WEAPON	$\epsilon_0 = \epsilon_0 + \epsilon_0$	∌ £12
7	용	RAFID DEPLOY	$\mathfrak{O} = \mathbb{C}^{n_{1}} \mathbb{C}^{n_{2}}$	
<b>⊱</b> :	Ŀ	1.63	0 C4A	2 177
9	14	ABW(LAND BASED)	0.043	
10	<i>2</i>	ATT SEPERIORITY (LANGED	TELL OF LANCE	
11	15	ASW SEA IAIEI)	0.033	2 315
12	23	AIF SUPERINGITY (THIE BY		1 I
1 🖹	21	ATE DEFENSE (FHIF DAGE)		
4 ز	10	STRATEGIC BOMBER	0. 025	
15		SPIE BASED WEAROUTAIR (		
1 é.	29	ASAT(SMACE BASED)	0.013	
17	18	MINE WASHAFE	0, 013	
1 €	-	AM HIDIOUS ASSAULT	0. 641	= :
19	1 😁	59E.34L OHESATIONS	0.010	
<b>1</b> 0	77.2	不信在今上招班。由今15500	O 0€7	-
21	20	ATH DEFENDERLINE DANSELY		
ery ery am d	C)	SEPORTURA REPORTA PO PLATO (		
13	<b>3</b> 0	SERVE THASEIT WHILE ON SEA A		
24	27	APPLISHATE DALEDY	$\mathcal{L}_{i} = \mathcal{L}_{i}\mathcal{L}_{i}\mathcal{L}_{i}$	• •
25	26	ABM(LAND BADET)	0.000	•
26	₽4	INCERCEPTOR AIRCHAFT		
27	1 1	S E TOM	9.000	
28	7	$\mathbb{T} \mathbb{C} E_{\mathcal{P}}$	0.000	• • •
29	-	CIVIL DEFENSE	((-0.0)	
(3 <b>0</b> )	4	CER	$\phi \phi \phi$	$\mathbf{G} = \mathbf{O}[n]$

# COMMODITY IMPORTANCE (LOC 3)

### COBALT

AIR INTERDICTION	5.71
AFMY GROUND	4 52
CAS	1 73
ICEM	0.00
STRATEGIC BOMBER	1. 75
SLBM	Q. QQ
ASW(SEA BASED)	1. 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 27
AIR SUPERIORITY(LAND BASED)	2 91
AIR SUPERIORITY(SHIP BASED)	2 23
INTERCEFTOR AIRCRAFT	Q. <b>Q</b> Q
ASAT (LAND BASED)	0.51
	34 Sec.

7	Ţ	N

AIR INTERDICTION	<u>=</u> , 2,5
ARMY GROUND	j 97
r:Ac:	1 9 1
STRATERIS ESTUER	1 77
ASW(LAND BASED)	24, 12, 2
ASW(SEA BASEI)	1 11
ATTACK SUPE	5.43
CARRIER BATTLE GHOUR	$-1 \odot -0.06$
MINE WARFALE	$\circ$
SURFACE COMBATANTS	4 25
AIR SUPERIORITY (LAND BASED)	
FIR SUPERIORITYCTHIN BASED	2 40
INTERCEPTOR AIRCRAFT	$Q = O(\alpha)$
ABM(LANI BABEI)	Conform
	41.15

### NICKEL

AIR INTERDICTION ARMY GROUNT CAS STRATEGIC BOOSER	5. 60 z 92 1 72 1. 79 PYRETHRUM	
ASW(SEA BASED) ATTACK SUBS CARRIER BATTLE G-100F MINE WARFARE SUBFACE COMBATANTS AIR SUBEBIOBITY(LAKD BASED) AIR SUBERIORITY(SHIP BASED)	1 DI FIRETHOUND L. 13 LO GO ARMY GENUND O. 80 CIVIL DEFENSE 4 DI ASW(SEA BASED) D. KI CAFRIER BATTLE GROUP 2 SURFACE COMBATANTS	7 7 7 6 60 0 14 10 0 3 4 20
INTERCEPTOR AIRCRAFT	0 00  41 21	17 ( )

### COMMODITY NORMALIZED IMPORTANCE

	COMMETCALLA MORMACISED	TME/OR LABOUR	
FLUORSPAR ACID	NICKEL		( 41 21)
	TIN	ତ୍ର ବର	( 41 16)
AIR INTERDICTION	7. 18 FLUORSPAR ACID	9. 60	( 영역, 및T)
AMPHIBIOUS ASSAULT	o zacobalt	8,09	( 34, ° )
ARMY GROUND	3. 65 FYRETHRUM	4 14	(C.17 Or )
CAS	2, 05		
ICBM	0.00		
STRATEGIC BOMBER	1, 79		
SLBM	0, 00		
ASW(LAND BASED)	3, 08		
ASW(SEA BASED)	1, 63		
CARRIER BATTLE GROUP	10, 00		
SURFACE COMBATANTS	4, 25		
AIR SUPERIORITY(LAND BASED)	2. 91		
AIR SUPERIORITY(SHIP BASED)	2, 28		
INTERCEPTOR AIRCRAFT	O. OO		
ABM(LAND BASED)	<b>Q</b> , <b>Q</b> Q		

39, 57

CITALT		
A-10	CAL CONTRACTOR	71 7535
00184	CA3	48 4891
F-4	A14 INTERDILTION	103 5050
	C+1	7 = 4
F-16	AIR INTERLICITO:	71 878 <b>5</b>
	Cel	40 4075
AST. ACRET	= •	2 6367
RADIO RLAY		3 2345
TOTAL TO THE TOTAL	C49	2 7270
F-111	AIR INTERDICTION	129 3813
A-6	AIR INTERDICTION	28 8144
F-15	AIR INTERMICTION	57 SULB
6-7	AIR INTERDICTION	51 <b>7</b> 525
F-14	AIR INTERIOR	43 1271
F-18	AIR INTERDICTION	71,8785
8H-3	ASR(SEA FASED)	<u> 6 07 15</u>
SH-2	ASWISSA PASEL)	15 1937
SH-40K	ASW(MEA BABEI)	23 6341
S-3	ABW(BEA BASED)	34, 7284
ATT, SUMS		24 1169
FRIGATES	ASWISEA BASED,	14 4701
DETROYERS	ABW(BEA BABED)	8 6821
M4 =	ARMY GROUNT	37. SACE
M-40	ARMY GETUNI:	61 013 1
M-1	ARMY GROUND	<b>67</b> , 7980
M-551	ARMY GROUND	0.2160
M=9601	ARMY GROUND	54 2384
M-1/6-3	ARMY GROUND	47 4555
M-113	ARMY GROUND	5, 2732
MLE(S	AFMY GROUND	20 3391
TOWED ART.	ABMY GROUND	27, 1192
SELF-PROF.	ARMY GROUND	36 1589
PERCHING	ARMY GROUND	18, 0795
GLOMS	ARMY GROUND	30.1324
INFANTRY	ARMY GROUND	7, 5331
MORTERS	ARMY GROUND	96. 9122
· · - · · <del>-</del> · · <del>-</del>	ARMY GROUND	1.5820
NULES ENTH	HEDT BEGOND	1. 0020
	O	55.0 7948 6842 3290 0961 8640
	00000 5622 5622 5624 5216 5216 7444 7444 7478 76681 3383 0000	55.00 70.48 6842 3270 096.1
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	<b>–</b>	

F-111

F-16

F-4

1743 1150

0,6710

FRIGATES DSTROYLES INFANTRY 0,4074

0,4603

SH-3 RADTU RLAY

ART AMERICALING

**⊠11-¥** 

5721 3974

MLES

SH-2

309-HS

7.778

MORTERS SELF-PROP

A-6 M-48

M-2/M-3

F-14

COERA

M-901

A-7

M-60 F-15

F-18

A-10

GLENS THUED ART. ATT. SUBS

(C) (C)

TIN			
A-:-	£A\$	7.	7 : 3 :
DOEF A	648		たもし
F-4	AIR INTERDICTION	103	والإقالة
	CA	っ	27:4
F-16	ARE INTERLICTION	7 1	87.85
	UAS	40	4075
ART, ASRET			6367
RADIO RLAY			J 34 T
	CA9		7275
F-111	AIR INTERDICTION	127	35 [1]
A-6	AIR INTERMICTION	43.	6662
F-15	AIR INTERDICTION		<b>3</b> 0.48
A-7	AIR INTERPOLETION	54.	7525
F-14	AIR INTERDICTION	48.	510
F-19	AIR INTERLICTION	EN	8632
SH~3	ASW(SEA BASED)	5	2093
SH-2	ABW(SEA BASED)	13	OTE1
SH~60B	ASW(SEA BASED)	20.	2582
5-3	ASW(SEA MASED)	34.	7284
ATT, SUBS	ASN(SEA BASEIO	14	4701
FRIGATES	ABW(SEA BASED)	14	4701
DETROYERS	ASW(SEA BASED)	8.	6821
M-48	ARMY GROUNIC	4.	2195
M-60	APNY GROUND	6.	7700
14-1	ARMY GEOURI	37	6655
M-551	ARMY GROUND	Ō.	0753
M-951	ARMY GROUND	6.	7799
M-2/M-3	ARMY GROUND	6	ファキャ
M-113	ARITY GROUND	O.	7973
MLRS	ARMY GROUND	10	1697
TOWED ART	ARMY GEOUND	4	5100
SELF-PROF.	ARMY GRUUND	6.	0260
PERSHING	ARMY GROUND	15.	8195
GLOMS	ARMY GROUND	26	3659
INFANTEY	ARITY GROUND		2649
MORTERS	ARMY GROUND		2732
ROLES LNOH	ARMY GROUND		2260

0000		00000 90000 90000	5, 6216	4 0070	1 A 157	4 4444	4, 0000	OUSZ E	3 3750	2 9113	2 6845	17.60 R	1 57.5	1. 22.3	1, 110/	1, 1187	1, 0064	0 78/3	0, 6719	0, 527	0.524	0.324	0,465	0,460	COM O	0,400	1. Kill 10	0 32%	2014	i c	100	. 1 98
NORMALIZED VALUES	-111 F-16	<b>7</b>		on in	THEORIES	in the second se	D . 7	<b>V</b> 1-u	( - 1.			(i) <b>E</b>	H-KOB	PINTH: HIRE	FRIGHTES	ATT WIES	ri	6H W	INTROYERS	グーエンバーエ	Tue-₩	M-4.0	CELE-PROP.	HAPTO 18 AY	MINITERA		FIGHT FORT		CRY OR BET	_	11 July 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•

NICHEL		
A-10	CAF	72 <b>7</b> 236
g historya	CAR	4 = 4 7 - 1
F-4	AIR INTERDICTION	<b>7</b> 7 6299
	CAS	5 4530
E-16	ATRI INTERNISTECT	71 6785
	r, s ÷	40 4000
ARY, ACRET	CAB	2 4345
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAP	2 7175
F-111	AIR INTERPRETION .	127 3813
A-6	AIR INTERCHITION	일당 원1주소
F-15	AIR INTERDICTION	57, 5023
<i>c</i> :-7	AIE: INTEFLICTION	51 7535
F-14	AIR INTERDICTION	48, 5180
F-19	ALE INTERMITTION	<b>20 969</b>
형범무용	ASK(SEA PASED)	6 9477
SH-2	ASW(SEA FASED)	17 9842
ミピーをの話	ABM(SEA PASER)	27 0109
9-3	ASW(SEA BASED)	34 7294
ATT. SUBS	ABW(SEA BAREI)	43, 4104
FRIGATES	ASW(SEA BASED)	26, 0463
DETROYERS	ASW(SEA BASEP)	15, 6278
M4≘	ARMY GROUND	41.1804
M-60	AFMY GROUPT	67 <b>7</b> 980
M-1	ABMY GROUND	75 3311
M-001	AFMY GEROURIE	0 <b>75</b> 02
M-901	ARMY GROUND	<b>47. 45</b> 96
M-27N-3	AFMY GERUND	54 2304
M-113	ARMY GROUND	5, 2732
MLRE	AFMY GROUND	20. 3394
TOWED ART.	ARMY GROUND	36.1589
SELF-PROF.	AFMY GROUND	48 2119
FERBHING	ARMY GROUNI)	18, 0795
GLOMB	ARMY GROUND	22 5993
INFANTRY	ARMY GRIUNI	37.6455
MURTERS	ARMY GROUND	15, 8195
ROLES LNOH	ARMY GROUND	0, 2260

10,0000 8,67%																															
F-111 E-16	<b>4</b> -1	F-18	M-1	0-10	M-60	E-13	M-2/M-3	A-7	F-14	CODRA	SELF-PROP.	M-co.	ATT SUBS	M-40	<b>ロー</b> 心	INFANTRY	TOWED ART.	C1 00	809-HS	FRIGATES	GUONS	Z K0	PERCHINO	8-19	MIRTERO	DALFROYERS	₩ <u>1</u> + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	RADIO RLAY	M-113	ART ACHET	 HUNI SHIRE

FLUORBRAR	Actn	
A-10	CAS	
COBFA	CAF	90, 9170
F-4	AIR IN ERBICTION	45 49 1
	- CAS	129 3813
F-16	AIR INTERDICTION	9. 0917
		문원 <b>동</b> (원1
AFT. ALRET		50 50-4
	AIR INTERPICTION	3. <b>6</b> 36 <b>7</b>
" ID TO THE	CAS	왕. 2345
F-111	AIR INTERDICTION	2 7275
A-6		161 7206
F-15	AIR INTERPLETION	45 5130
A-7	AIR INTERDICTION	<b>71</b> . 8735
F-14	AIR INTERDICTION	64. 6965
F-18	AIR INTERDICTION	53, 90:9
	AIR INTERPLICTION	동안, 8431
5H-3	ARK (SEA EMBED)	<b>6</b> 9450
SH-2	ASW(SEA BASED)	17, 3642
SH-60B	AEW(SEA BASED)	33 7807
S-3	ASW(SEA BASEI)	43, 4104
	ABK(BEA BASED)	28, 9403
FRIGATES		20, 2582
DSTROYERS	- · · · · · · · · · · · · · · · ·	12, 1549
M-48	AEMY GROUND	17 6554
M-60	ARMY GROUND	20 3995
M-1	ARMY GROUNT	22 5993 22 5993
M-551	AFMY GROUND	0.20%
M-901	ARMY GRUUNII	54 2384
M-2/M-3	ARMY GROUND	54 2384
M-113	ARMY GROUND	6. 02AS
MLRS	ARMY GROUND	16.9495
TOWED ART.	ARMY GROUND	22, 5993
SELF-PROP.	ARMY GROUND	30 1324
FERSHING	ARITY GROUNT	15, 8195
GLCMB	ARMY GROUND	10.8175 <b>26</b> .8659
INFANTRY	ARMY GROUND	
MORTERS	ARMY GROUND	60 2649 26 2750
	ARMY GROUND	26, 3659 0, 2260
	The second secon	O. ZZ6Q
	•	

			1. 2576 1. 2526 1. 0707 1. 0480 0. 9702 0. 7506 0. 7506 0. 3706 0. 3706 0. 3709 0. 3709 0. 3709
nLizen values i	NTRY 1-3	30P. 38 3 <b>ART.</b>	ATES HING OYERS O REAY A REE C LINCH
NORM/ F-11 F-16 F-16 A-10 F-18 F-18	1N - M 1N - M - 2 / M 1 - 2 / M 1 - 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	SH-60B SELF-PP ATT. SI MORTERS GLCMS TOWED (	M-60 ERIGA SH-2 MLF3 MLF3 PFRSH M-113 M-113 M-113 M-113 M-113 M-113

ASM(SEA BASED)
APER OF MINITE
AFI F GELOURID
ARMY GROUND
ARITY EFFICIAL
海航路 排机的第三人
ARMY CROUBLY
AFMY GROWND

14.	4701
	DD-6
47.	410-6
5.	2732
÷ ;	6390
4.	1754
75.	3311
3%	9122

TARREST AND A STATE OF THE STAT		
INFANTRY	10.	0000
M-60	6	3000
SELF-PROF.	5	6000
MORTERS	4	$\mathfrak{D}(\mathbb{P}(0))$
TUMED AFT	4.	2000
M-48	3.	9200
ATT, SUB?	1.	9200
M-110	Ō	7000

ALL COMMO	DITIES	
A-10	CAE	3.0000
1 SBRA	(, A E	2 1017
F-4	AIR INTERDICTION	4 1462
	CAS	O Section
F-16	AIR INTERNICATION	0.0548
	CAR	1 7173
ART. ACRET	CAS	0.1333
RADIO RLAY	AIR INTERUICTION	0 1294
	CAS	0.1091
F-111	AIR INTERDITTION	5 49-7
A-6	AIR INVERDICTION .	1 6991
F-15	AIR INTERDICTION	2 4479
<b>≙</b> −7	AIR INTERDICTION	2 1995
F-14	AIR INTERLICTION	1. 9407
F-18	AIR INTERPICTION	3 2345
84-9	ASW(SEA BASEI)	0. 2510
SH-2	ASW(SEA MASEI)	0 6295
5H-6OD	ARK (BEA MARED)	1 0447
5~3	ASW(SEA BASED)	1. 4760
ATT. SUBS		1 2541
FRIGATES	ASW(SEA BASEL)	0.7524
DSTROYERS	ABW(SEA BASET)	0 4515
M-48	ARMY GROUND	1. 2656
M-60	ARMY GROUND	2 0339
M-1	ARMY GROUNT	2. 0339
MHEET	ARMY UPOJED	0.0128
M-901	ARMY GROUNT	1. 6272
M-2/M-3	ARMY GROUND	1. 6272
M-113	ARMY GROUND	0. 2260
MLRE	ARMY GROUND	0. 6780
TOWED ART.	ARMY GROUND	1.2204
SELF-PROP	ARMY GROUND	1 6270
PERSHING	ARMY GROUND	0. 6780
GLCMB	ARMY GROUND	1. 0546
INFANTRY	ARMY GROUND	2.4106
MORTERS	ARMY GROUND	1. 2128
	ARMY GROUND	0. 0226
		v. valac

2807 9035 3684 2330 5,8824 5,6216 4,4444 9899 0000 0009 6869 9592 9592 0316 ೧೮೮೮ 8213 5294 6842 3016 2104 2300 0882 2650 0.8210 13.81 1. 1447 0.45779 0.4110 2, 2057 NORMALIZED VALUES F-111 RADIO RLAY POTENT LINEH SELF-PROP. M-2/M-3 M-901 S-3 M-48 ATT. SUBS ART ACRET TOWED ART. MORTERS DSTROYERS INFANTRY A-7 COBRA M-1 SH-60B FRIGATES PERSHING MLRS **GLCMS** S1 1-₩ A-10 F-15 0-H0 F-16 F-4 M-60 C-H F-18 F-14 A-6

### CHITICALITY OF SHORTFALL

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3.	Ūr,√a	FinE	FALL	TE SYSTE	LM DITY	OFITII	17
COMMODITY	(LMAITE)	(L'SITE)		LATED	IMPORT.	AL1TY	A 1 1 12 - 13 -
COBALT	81 <b>4</b>	43 8	<b>-</b> 41: 7	401 5	8 <b>5</b>	3418. ]	<b>-</b> 1
TIN	A.J. O	190.6	353. S	$\circ \circ$	10.0	<b>O</b> . O	O O
< ALCKEL	200 St. E	32 Z	-+:::	<b>ረ</b> ፲ = 7	$1 \odot 0$	4377.1	1 2
FLUORSPAR ACID	140000	$\mathbb{R}^{(0)}(\mathbb{R}_{+},\mathbb{R}_{+})$	-36 1	31.51.5	9 6	37 <b>7</b> 4 3	· /
_FYRETHRUM	$f \in \mathcal{J}_{X,Y} \cap \mathcal{O}_Y$	$\phi$ $\phi$	- 1 (b) C	£	4 1	1860.7	<u> </u>

## COMPOSITE IMPORTANCE (LUC 3)

#### CORALT

EOURCE ZA1FE IAMBIA DANADA U S		AMOUNT SUMPLIED 12500 2900 1100 1000	% OF TOTAL 71.43 16.57 6.29 5.71	2. 89	1/01 1,404 1,404 0,346 0,311	1,11 (0,13) 1600 2577 2
	TSTAL	17500	100.00			

## COMPOSITE IMPORTANCE (LOC 3)

### TIN

■SOURCE AUSTRALIA U S THAILAND INDONESIA UK BOLIVIA SRAZIL PRO		AMOUNT SUPPLIED 100. 16100. 5900 5800 100. 10300. 2400.	% OF TOTAL 0 15 23,82 8,53 8,53 0,15 15,24 3,55 4,44	COMPOSITE IMPORTANCE 0. 92 2. 56 0. 90 0. 92 1. 96 0. 98 0. 86 2. 47	1. 087 0. 391 1. 087 1. 087 0. 510 1. 020 1. 162	0.1771 0.161 9.319 9.322 0.075 15.540 4.175
PRC MALAYSIA	TOTAL:	3000 23900.  67600.	4 44 35, 36 	2, 47 0, 92	0. 405 1. 097	1 796 98 <b>4</b> 14

## COMPOSITS IMPURIANCE (1900 3)

#### NICKEL

1	Also this	<b>7</b> ,	(90% 0817E		
ใช่อนกอย	± ជាមΩិπ្ត	707AL	THE STAIRE	1701	7
FINLAND	1000.	0.23	$oldsymbol{1}_{+},oldsymbol{2}_{-}$	O. 520	4 2 7 1
SOUTH AFRICA	TOO II	1.64	1. 19	0.841	1 7.1
PHILIPPINES	5000	1. 在4	0. 92	1.087	; <del>-</del>
AUNTRALIA	25/99	8, 21	Q 92	1 037	· 表示
CANADA	1500000	49, 29	2 89	O. 344	5 - C - C - C - C - C - C - C - C - C -
បន	880 <b>00</b> .	28 91	2 56	0 351	11 311
GREECE	<u> 600</u>	0.20	1, 96	0.510	1 1
NETHERLANDS	200.	0, 67	1, 96	0.510	$Q \cdot Q \cdot A$
FRG	100.	0.03	1, 96	0.510	€ 6.47
YUGOSLAVIA	500	Q. 16	1. 96	0.510	41.12
USSR	<b>5</b> 000.	1.64	Q. 94	1.061	1 743
DOT: REPUR	15000.	4, 99	1 33	0. 654	
GUATAMALA	<b>4</b> (00)	1. 31	1, 59	0.656	C 8:61
INDONESIA	5000.	1. 64	0. 92	1, 087	1,715

TOTAL: 304400. 100.00

COMPOSITE IMPORTANCE

(L000 8)

### FLUORSFAR ACID

l SOURCE		AMOUNT SUPPLIED	% OF TOTAL	COMPOSITE IMPORTANCE	1/01	% (1/C1)
SOUTH AFRICA		180.	22 34	1.39	0.841	18 301
<b>拟</b> 包		70.	£ 70	2, 56	0. 391	- 4
ITALY		<b>6</b> 5.	8, 07	1. 96	0.510	4, 120
SPAIN		100.	12 42	1.96	0.510	6 30 g
BAST AFRICA		23.	3.11	0.71	1.404	4. 35.9
THEILAND		15.	1, 86	0, 92	1, 087	2, 025
MEXICO		350.	43.48	2 56	0. 391	17 011
	TOTAL:	805.	100.00			

composite importance
(LOC 3)

#### PYRETHRUM

	AMOUNT	% OF	COMPOSITE		
SOURCE	SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/CI)
SOUTH AFRICA	2000.	1.01	1. 19	Q. 841	0, 852
AUSTRALIA	1500.	0.76	0. 92	1. 087	0, 825
UK	11000.	5, 57	1. 96	0.510	2, 842
KENYA	80000.	40, 51	0. 71	1. 404	<b>5</b> 6. 830
RWANDA	<b>25</b> 000.	12.66	0.71	1.404	17, 757
TANZANIA	78000.	39. 49	0. 71	1. 404	<b>5</b> 5, 433
	TOTAL . 197500	100.00			

# SOURCE IMPORTANCE (LUC 3)

SECHOE	%(1/CI) (One une	FE/SHORTFALL U-ITICALITY	TETAL	NORMALITER TULLS
COBALT				-
ZAIRE	100, 257	7 81	782, 91	100.00
ZAMETA		7. 81	101.64	23 [ ]
CANADA	2 175	7. 81		2 17
• US	2 236	7. ÉÍ	17, 46	
TIN '				
AUSTRALIA	0.141	0.00	0.00	0.00
บร	જે જે કે	ó ó ó	0.00	A C
THAILAUD	9,483	Ó ÓĠ	0. 00	O. •
INDONESIA	9 322	0 00	0.00	ο. c :
LII	0.075	$\hat{\alpha}$ $\hat{\alpha}\hat{\alpha}$	6. 00	8 55
BOLIVIA	15, 548	0, 00	6.00	* - ·
BRAZIL	4, 125	0, 00	0.00	
PRO	1, <b>7</b> 93	0. 00	0. 00	• • •
MALAYSIA	38, 414	0.00	9, 90	
NICHEL				
FINLAND	0.174	10 00	1.71	0. 20
	- ·	10.00	13. 81	1. 7 ±
SOUTH AFRICA	1.381			
PHILIPPINES	1.785	10 00	17, 85	
AUSTRALIA Genama	<u> </u>	10, 00	89. 24	11. 40
F	17, 004	10.00	170 50	21.79
US	11, 311	10.00	113.11	
. GREECE	0.101	10 00	1, 01	0.13
NETHERLANDS	O. QB4	10.00	0 34	Q. 04
' FRG	0, 017	10.00	0.17	0. 02
_ YUGOSLAVIA	O, OS/4	10, 00	O 84	0.11
<b>⊥</b> USBR	1 742	10.00	17, 42	
DOM REPUB	3 230	10,00	32, 30	4, 13
GUATAMALA	Q. S&1	10.00	8, 61	
INDONESIA	1 785	10, 00	17 85	2 20
FLUORSPAR ACID				
SOUTH AFRICA	18, 803	8 55	160, 85	20, 54
បទ	3 <b>4</b> 02	8, 55	29, 10	3, 72
TALY	4, 120	8. 55	35, 24	4, 50
SFAIN	<b>6</b> . 338	8, 55	54, 22	
EAST AFRICA	4, 359	8, 59	37, 29	
THAILAND	2,025	8, 55	17, 32	
MEXICO	17. 011	8. 50	145, 52	
- PYRETHRUM				
SOUTH AFRICA	0, 852	4, 30	3, 66	0. 47
AUSTRALIA	0. 825	4.30	3. <b>5</b> 5	
UK	2. 842	4. 30	12. 21	
MENYA	56, 850	4, 30	244, 29	
EWANDA	17, 767	4.30	76. 34	
	17.767 <b>5</b> 5.433	4, 30	238. 18	
: TANZANIA	구선, 약수하	4. 30		

### SOURCE IMPORTANCE RAWED IN SIDELE LLDG BY

# 1 2	SOURCE	ÇONE ELAME	VALUE
<b>1</b>	ZAIFE	Q. 12. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	100.00
	KENYA	FYRETHERM	31, 20
, 3	TANZANIA	EVERYHRUM (	30. 42
4	ZAMETA	COLCIA	23, 20
5	CANADA	NITHEL	21, 78
6	SOUTH AFRICA	FLUORIFAH ADID	20 54
7	MEXICO	FLUORSPAR ACID	18, 59
8	បទ	NI FEL	14 45
	AUSTRALIA	NICKEL	11.40
0.3	RWANTIA	<b>自从共生工程与 (24)</b>	© 7', i
. 1	SPAIN	PLUTERRAH ACID	6. 93
12	EAST AFRICA	FLUO-SPAR ACID	4. 7%
13	ITALY	FLOGE STAF ACIE	<b>Z</b>
4	DOM REPUR	NICHEL	4.13
45	บิร	FLUCREPAR ACID	B. 72
16	INDONESIA	NICHEL	2. 22
٠.7	PHILIPPINES	NICKEL	2. 28
8.3	() S	The said to	2 2 -
19	USSR	NICHEL.	2, 23
20	THATLAND	FLUMBSPAR ALIT	2.01
21	CANATIA	$\mathbb{C} \cap \mathbb{C}_{b \mapsto a_{1}} \cap$	2.17
22	SOUTH AFRICA	NICKEL	1 74
23	UK	PYRETHAUD	1 54
- 4	GUATAMALA	WELLEL	1 16
<b>.</b>	SOUDH AFRICA	FYRETHERM	0.47
24	AUSTRALIA	PYRETHRUM	0, 45
-27	FINLAND	NICHEL	0.22
20	GREEUE	MINEGO	0.13
29	YUGOSLAVIA	NICKEL	0.11
30	NETHERLANDE	MINHEL	0.04
31	FRG	NICKEL	0.02
32	MALAYSIA	TIU	0.00
33	PRO	TIN	o oo
34	BRAZIL	N1T	0, 00
35	BOLIVIA	TIN	Q. QO
36	UF.	TIN	0, 00
27	INDONESIA	T1!4	$Q_{1},QQ_{2}$
38	THAILAND	TIN	0, 00
39	us	TIN	$\Phi_{i}, \Phi\Phi_{i}$
40	AUSTRALIA	TIN	0, 00
41	CANADA	NICKEL	21.78
42	AUSTRALIA	NICKEL	11.40
43	PHILIPPINES	NICKEL	2, 28
44	SOUTH AFRICA	NICKEL	1. 76
45	FINLAND	NICKEL	0. 22
46	MALAYSIA	TIN	0, 00
47	PRC	TIN	0.00
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SCENARIO 15

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## FORCE ELEMENT IMPORTANCE (Line F)

	ELEMENT	FORCE ELEMENT	CALCULATED	NOBMAL 1261
RANCING	NUMBER	tu 640 im	VALUE	
1	17	CASSILE DETAILS OF ME		$\widetilde{\Gamma(0)}$ (eq.
2	1	AIR INTERUICITION		8 <u>1</u> 61
-	3	APOTY GROOME	0.104	
4	1.6	ATTACH Street	0.072	
5	150	SURFACE COMPATA TO	0.040	
E	1 /	THEATHR NOTEER WEARING	0.084	
7	( <del>5</del> )	RAPID DEPLOY	0.052	3 70:
8	<i>خ.</i>	CAS	Q 044	0.177
¢		ASW(LACIO BASELO)	6, 043	
10	27	ATE SUPERIORITY (LAND BA		
1 i		ABWASHA BASHIO	0.017	
1 🖺	23	AIR SUFERIURITY (SHIP BA	RSEID OLOGIZ	-
13	7.1	Alf DEFENSE(SHIP BASED)		
1.4	10	Sinateric booker	0.025	1 7-4
15	25	SPOE BASED WEAPONKAIR C		
14.	29	ASAT(SPACE BASED)	0.013	O POS
17	18	MINE WARFARE	0.013	
18	-	AMPHIFIQUE ASSAULT	0.011	O 75 '
19	13	SPECIAL OFEHATIONS	0.010	0.725
20	er er e	ABAT (LAND PREED)	<b>Ö</b> (⊝)7	• " •
21	20	AIR DEFENSE LAMI DAMED	0.004	
	Φ,	SPCE-BAGED WEAPON(LND C	INTELDO, 003	0.212
23	<b>2</b> 0	SPOE BASED WEAROUSERA (	MULTER OF OOS	O 11%
24	emp q als	ABM(SPACE BASED)	<b>0.000</b>	$\hat{\mathbf{O}} = \hat{\mathbf{O}} \times \hat{\mathbf{O}}$
25	26	ATM(LANI PASEI)	(* Osto)	Ç Ç
26	24	INTERCEPTOR AIRCRAFT	0, 000	0.000
27	11	SLEM	$\tilde{Q} = \tilde{Q} \cap \tilde{G}$	$\tilde{Q} = \tilde{Q}(\tilde{Q})\tilde{Q}$
23	<del>.</del>	ICES.	0,000	<b>0</b> 000
29	5	CIVIL DEFENSE	Q QQQ	
30	4	CDA	$\mathbf{Q} = \mathbf{Q} \cap \mathbf{Q}$	$\mathbf{Q} \cdot \mathbf{Q} \oplus \mathbb{C}$

# COMMODITY IMPORTABLE (LOC 3)

### COBALT

AIR INTERDICTION	5. 71
ARMY GROUNI)	4, 52
CAS	1.75
ICEM	<b>Q</b> . QQ
STRATEGIC BOMBER	<b>1.</b> 79
SLBM	0. 00
ASW(SEA BASED)	1.27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP RASED)	2, 28
INTERCEPTOR AIRCRAFT	0, 00
ABAT (LAND BABED)	0. 51
	9A 99

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$\underline{t}_{-1}^{*} = C$
1.92
$1_{+}\geqslant 1_{-}$
1 75
3, 64,
1.11
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10.00
$O \in \mathbb{G}_{2^{n}}$
Z
2, 91
2 29
<b>Q</b> . GO
O. OO
41 18

### NICKEL

	·	
AIR IMPERBICTION	7.60	
ARMY GROUND	4 92 FYRETHRUM	
CAS	1. 72	
STRATEGIC POMPER	1 79aamy GROUND	2 6
ASN(SEA BASED)	1. 71 CIVIL DEFENSE	Ø 00
		0.14
ATTACK SUPS	S. 13 ASW(SEA BASED)	16 00
CARRIER BATTLE GROUP	10 00 CARRIER PATTLE GROUP	
MINE WARFARE	C. 89 BURFACE COMBATANTS	4 23
SURFACE COMBATANTS	4 26	
		17 00
AIR SUPERIORITY(LAND BASED)	2. 91	•
AIR SUMERIORITY(SHIM BASED)	2, 28	
INTERCEFTOR AIRCRAFT	0, 00	

FLUORSFAR <b>A</b> CID	41.21 COMMODITY NORMALIZE NICKEL TIN FLUORSPAR ACID COBALT	10,00 9,99 9,60 8,49	( A1 21 ( 41 1 ( 54 57 ( 57 9- ( 17, 09
	PYRETHRUM	4. 14	( 17. W.

AIR INTERDICTION	7.13
AMPHIBIOUS ASSAULT	0. 76
ARMY GROUND	3, 69
CAS	2, 05
ICBM	Q. <b>Q</b> Q
STRATEGIC BOMBER	1. 79
SLBM	0.00
ASW(LAND BASED)	3,08
ASW(SEA BASED)	1, 63
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2 28
INTERCEPTOR AIRCRAFT	0, 00
ABM(LAND BASED)	<b>Q</b> . <b>Q</b> O
	39, 57

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COEALT
                                                       7331
6-10
            CAS
COBRA
            <u>C</u> - '
                                                     4: 6: 1
                                                        5 50
F-4
            AIR INTERDICTION
                                                    103
            <u>C</u>A:
                                                     71 9795
F-16
            F.] F
                INTERINGTER.
            CAE
                                                     40 4075
AR:T
     ACRET CAS
                                                        6367
                                                        2345
RADIO RLAY AIR
                INTERDICTION
            CAS
                                                    129, 38, 3
F-111
            AIR INTERIUSTION
                INTERLICTION
4-6
            AIR
                                                     38 8344
F-15
            AIR INTERDICTION
                                                     57
                                                        5029
            AIR INTERDICTION
4-7
                                                     54, 7525
F-14
                                                     43 1271
            AIR INTERDICTION
                                                     71 8795
F-18
            AIR INTERDITTION
                                                      6.0775
5H-3
            ABR (SEA BASED)
                                                     15. 1937
9H-2
            ABW(EEA BABED)
SH-60B
            ASW(SEA BASED)
                                                     23, 6346
            ASW(SEA BASED)
                                                     34 7234
9-3
ATT. SUBS
            ASW(SEA BASED)
                                                     24 1169
PRIGATES.
            ASW(SEA BASED)
                                                     14, 4701
DETROYERS
            ASW(SEA BASED)
                                                      8. 68.31
            ARMY GROUND
                                                     37, 9669
M-48
M-60
            ARMY GROUND
                                                     61 0180
                                                     47 7980
M--1
            ARMY GROUND
                                                      0. 2260
M-051
            ARMY GROUND
M-901
            ARMY GROUND
                                                     5시, 고양당4
                                                     47.4534
M-2/M-3
            ARMY GROUND
                                                      5. 2731
            ARMY GROUND
M-113
                                                     20, 3394
MLRE
            ARMY GROUND
TOWED ART.
            ARMY GROUND
                                                     27
                                                        1192
                                                     36 1599
SELF-PROP.
            ARMY GROUND
                                                     18, 0795
PERSHING
            ARMY GROUND
                                                     30, 1724
            ARMY GROUND
GLCMS.
                                                      7, 5331
INFANTRY
            ARMY GROUND
MORTERS.
                                                     36 9122
            ARMY GROUND
ROLES LNCH ARMY GROUND
                                                       1.5820
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7°48 6843 3090 0°6.1 8640 8267 5721 3974 1184 6710 ध्री रंगा है 1921 0000 7478 6481 3033 0000 9045 41.97 5622 6216 5556 2402 7162 NORMALIZED VALUES PELLY LINEH HAPTO RUAY 17 DSTROYERS SUPS SULF-PROP THWED ART FRIGATES **VELNOTEY** CNIHOUSE MURTERS M-2/M-3 909-HP CHUNC COBRA 244-2 M-901 MIR A-6 M-48 M-60 11-4 A-10 01-F-16 A-7 (1) (1) 7 1-8 F-4

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TIN		
A-10	CAS	77 -777 A
CILEG	F (	
F-4	AIR INTERPRETATION	100 5000
	5AS	7 2739
F-16	ACF INTERICTION	71 17 85
	Cell	41 4075
ART. ACRET	CAS	3 6367
RADIO RLAY	AIR INTERDICTION	3 2345
	CAS .	5 7275
F-111	A'R INTERLICTION	128 3813
A-6	AIF INTERLICTION	43 6662
F-15	AIR INTERDICTION	<b>57</b> 5000
<i>6</i> −7	AIF INTERLICTION	E.1. 7515
F-14	AIR INTERDICTION	48 5180
F-15	ATE INVESTIGATION	8 / 8.13
SH-3	ASW(SEA BASEL)	5 20-3
em-1	ARV(SEA BASEI)	13.0291
SHHAOF	ABW (SEA BASEL)	20 25.1
5-3:	ASW(BEA BASED)	34 7284
ATT. SUNS	ASW(SEA BASED)	14.4701
FRIGATES	ABW(BEA BASED)	14.4701
DETROYERS	ABW(SEA BASED)	8 6821
11-45	ARMY GROUND	4. Z185
M-40	ARMY GROUNT	4 779g
M-1	AEM / GROUND	97. <b>6</b> 655
M-TII	ARMY GROUND	0.6753
M-901	ARMY GROWING	<b>6. 7</b> 798
사는 무슨 기업을 걸	ARMY GROUND	6 <b>77</b> 70
11-117	ARMY GROWER	( 75BP
MERS	ARMY GEOUND	10 1697
TOWELL AFT.	AFMY GROUND	4 5100
SELECTION	AHMY GROUNT	6 QI47+
PERSHING	AEMY GROUND	15 8199
<b>CT CM</b> 2	AFMY GROUND	25 3559
INFARTHY	ARITY GROUND	60. ISBP
MORTERS	ARMY GROUND	5 2732
ROLES LNOH	ARMY GROUND	0. 2260

NICHEL																																			
	CAE																		7	<u>-,</u>	73	<u>,</u>													
	<u> </u>	• • • •																				. ;													
	AIR CAS	INI	= 11/1	TL	7.1	Œ#\	Ì															19.3													
	EMAN APR	16.73	<u> </u>	<b>.</b> -	<b>-</b> -																	750 150													
• •	- E	<u>.</u> ,		<i>i</i> .	` •																	7 - 7/5			-										
ART. ACRET	CAE																					45		•											
RADIO RLAY	AI-:	INT	EKI	<i>i</i> 11	7 :	追往	1															Δ.													
	CAE																				77	7	,												
	AIB																					::3													
	AIE																					22													
F-15 A-7																						) I (S													
F-14																			_			121 121													
1  4 . <del>-</del>	CIE	T + 17 '	~- +																			1 = 1.													
5H-3 5H-2	45W(	EEA	Ŀ	= -	I)																	7													
E.U. 1	A901(	SE4	E.:	) E E	_ [:]																	4.													
$\mathcal{Z} = -\nabla v(\mathcal{I})$	AF KC	₹ E' ¢	E/	HEE	Ľ														_	7	Ċ	C'-	,												
	AERK		_		_																	84													
ATT SUBS																				_	-	()4													
FRIGATES DETROYERS																						163													
	ASILY				. /																	17. 15.4													
M-40	ARMY	G.E.	31.18	Į.																		· · _ · · . · · · · · · · · · · · · · · · · ·													
14-1	AFRITY	Ç.F.	[0_8	iI.																		1													
M-551	ANT.	65	الراز	<u> </u>																															
M-901																						īĘ:¿													
M-2/M-3																																			
MH113 MURB																						733													
TOWED ART																						enia Jeng													
SELF-PROP		_		_																		,ı⊸,   { €													
PERSHING																						795													
GLCMS																			2	2	5	19	•												
14年台(四部分)																			3	7.	64	. 576	· •												
MORTERS																			_			90													
FOURS LNIE	ARMY	GF0	_11_11	4I.)																Ō	2:	267	)												
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				0000 7000 7000		Ĺ.		6211	2402	44	Ü	0	7550	74/	13	1899	m	2600	Ê	2116	<u>.</u> /	(089)	() () ()			3974	₹:		1.702		11/11	7/100	5/31	χ Έ	_
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			균.	<b>-</b>							Σ			Œ	Ÿ					Z				- I 0	,	H		H	Ξ				C		
			NORMALIZED VALUES	F-111 F-16	4	Ü	_	<b>01-</b> ₹	M60	F-15	M-2/M	^	F-14	COURA	SELF-FROP	M-001	ATT	<b>6</b>	Ų.	INFANTRY	TOWED	(0)	30V-MS			PERCHING	7-H	HORTERS	PS ITALIYERS	7	RADIN	1	<u>.                                    </u>		
			ラ:		4-4	F-1	<u>Π</u> -Γ	+	Σ	 	1	A-7	ļ Li	Ē	區	1	1	M-40	4-6	Ž	<u> </u>	(f) + (f) (f)	<u>+</u> (	۲ -	=	Ü	İ	===	<u>.:</u> :	· - 1 · ·	(5)	1111	1111	- -	
			<b>-</b> '			_	_		_	_	_	_	_		•			_	~	•		•	-	_ '-					_	•	-	_	•		-

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DODE A	### ### ### ### #####################	48 4891
F-4	AIR INTESPICTION	129, 3:11
1	CAS	위, O위17
F-16	AIF INTERPICTION	88, 8471
	0.48	50 5004
ART. ACRET		S. 6367
RADIO RLAY		3, 2315
	CAS	2, 7275
	AIR INTERDICTION	161 7260
	AIR INTERPICTION	48 5180
	AIR INTERDICTION	71, 8780
	AIR INTERDICTION	64, 6906
	AIR INTERDICTION	53 9099
	AIR INTERPICTION	89, 8431
	ASE (SEA BASELD)	6, 94,7
· · ·	ASW(SEA BASED)	17, 3642
	ASW(SEA FASED)	33 7652
- · -	ASW(SEA BASED)	43, 4) 04
9-3 **** *****	ASW(SEA BASED)	28, 9403
ATT, SUBS	ASW(SEA BASED)	20, 2582
FRIGATES		12, 1547
DSTROYERS	ASW(SEA BASED)	12, 6006
M-49	ARITY GROUND	20, 3394
M-60	ARMY GROUND	
†1 <u>1</u>	FERRY DESCRIPTION	- 22 Di 17 - 0 20 60
トーラッチ	AFMY GRIPINE	
M-901	ARMY GROUNI	54, 2384
MHS/MHB	ARMY GROUND	54, 23/4
M-113	ARMY GROUNI)	6, 0260
MLHE	ARMY GROUND	14, 9450
TOWED ART.	ARMY GROUND	22. <b>5</b> 993
SELF-PROP.	ARMY GROUND	30 1324
PERSHING	ARMY OF DUND	15, 8195
GLCMS	ARMY GRUUND	26 3659
INFANTRY	ARMY GROUND	60, 2649
MILE TERS	ARMY GROUND	26. 34TP
ROLES LNOH	ARMY GEOUND	<b>0</b> , <b>2</b> 260

1, 3974 1, 2576 1, 2526 1, 0737 1, 0480 10,0000 8,678.7 8,0622 5,4216 5,5556 4,4444 2. 6842 2. 0877 1. 8632 1. 7895 1. 6303 3, 727.3 3, 3537. 3, 3537. 3, 3333 3, 0000 2, 9982 1. 6303 0, 3726 1. 8974 0.4255 0,0486 4, 0000 0.9782 0.7825 NORMALIZED VALUES F-111 POLES UNEH Meest FARIO FLAY AFF ALKET GLOMS TOWED ART SH-KOB SELF-PROP. ATT. SUBS DSTROYERS M-60 FRIGATES SH-2 MLRS PERSHING INFANTRY M-2/M-3 M-901 MORTERS ©-11-₩ A-6 COBRA 3-3 M-48 F-15 A-7 A-10 F-18 F-14 F-16 

FORID HEURI

ATT. SUBS ASW(SEA BASED)
M-48 APMY GROUND
M-40 APMY GROUND
M-118 ARMY GROUND
TOWED ART. ARMY GROUND
SELF-PROP. ARMY GROUND
INFANTRY ARMY GROUND
MORTERS ARMY GROUND

#### NORMALIZED VALUES

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INFANTRY		10.	$O\cap \cap \mathcal{I}$
M-40		6	iga jaran s
SELF-PROP.		5.	6000
MORTERS		4	$\Psi(a)(c)$
TUWED ART.		4.	2000
M-48		3.	9200
ATT. SUBS		1.	9209
M-113		Ō	7000

ALL COMBO	MITIES	
<b>A</b> = 10	C46	3 0912
CORRA	ପ୍ରତ	2 1/12
F-4	RIP INTERIORS	4 14 12 4 14 12
	DAS	0 2202
F-16	AIR INTERNIOTION	ន (ភ្នំ១៩៩)
	CAT	1 7178
ART. ACRET		0 1333
RADIO RLAY	ALR INTERDICTION	0 1294
	CAS	0. 1091
F-111	AIF INTERLITTION	5. 4ବର୍ଷ
4-6	AIR INTERDITTION	1.6981
F-15	AIR INTERDICTION	2, 4439
A-7	AIR INTERPORTION	2, 1995
F-14	AIR INTERDICTION	1 04.57
F-18	AIR INTERDICTION	3 2345
9. <b>H</b> +3	ASM(SEA BARED)	0 2513
SH-2	ASW(SEA BASED)	0. 6295
SHHAGA	ASK(SFA PASET)	1 0467
9-3	ASW(SEH BASED)	1.4760
ATT. SUBS	ASW(SEA BASEI)	1. 2541
FRIGATES	ASW(SEA BASED)	0. 7524
DETROYERS	ASM(SEA BASED)	0.4515
11-4部	ARMY GROUND	1. 2658
M-60	ARMY GROUND	2. 0339
M-1	ARMY GROUNT	2, 0339
M-551	ARMY GROUNT	0.0113
11-901	AHMY GROCKI	1.6272
M-2/M-3	ARMY GROUND	1. 6272
M-11B	ARMY GROUND	0. 226
NLRE	ARMY GROUND	0. 6760
TOWED ART.	ARITY GROUND	1, 2204
SELF-PRSH	ASMY GROUND	1. 6272
FEREHIND	ARMY GROUNT	0. 6780
GLENE	ARMY GROUND	1.0546
1 4/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	- ·	2.4106
MUNITER	AFMY GROUND	1 2108
FIGLES LNCH	ARMY GROUND	0.0226

3 10 0000																				2, 2057							人 100mm C		
NORMALIZED VALUES F-111	-16	4	<u>~</u>	10	<u></u>	INFANTRY	A-7	COBRA	Ι-Σ	4-60	14	Ġ	LF-PROP.	2/M-3	901	_{(O}	M-40	ATT, SUPS	TOWED ART.	MORTERS	CMS	co.	IGATES	Ž	ρ( <b>۲</b>	DATENDALENS	KALUD KLAY Marro	- - ⊢	

## CRITICALITY OF SHORTFALL

ALL FE 3 (LOC 3)

		STOCK	SHORT		FE/		MINERAL THEF
i .	ធ្វាក់(	FILE	FALL	TF.2* :	CHECITY	LRITIE-	F = -
COMMUDITY	(現時得回至)。	(KHWITE)	CNA	L4381	1 MEDIRT.	ALITY	1111
\$OBALT	85 4	43 8	<b>-</b> 4⊎ 7	462 5	៩5	3418 1	7 😓
FIN	42 O	190 6	353.8	O = O	10.0	0.0	$\mathbf{Q} \cdot \mathbf{Q}$
TICKEL	200 0	31 Z	—83, ⊅	437 7	10.0	4377 1	100
LUORSPAR ACID	1400 O	895 O	-36. i	ଞାଝ୍ଟ ନ	9.6	3744 3	B 6
YRETHRUM	500 Q	Q. O -	-100.0	413. B	4.1	1850 2	4 2

## COMPOSITE IMPORTANCE (LOC 3)

#### CORALT

BOURCE 7AIRE 1AMITA 8A JAIA 1 S	SUPPL[ED -9000. -2900. -1100.	% OF TOTAL 51, 43 16, 57 6, 29	<del>-</del> ·	1, 404 1, 404 0, 844	%(1/01) 72,185 28,260 2,175
· -	4700.  L 17500.		2 56	0. 351	10 071

## COMPOSITE IMPORTANCE (LUC 3)

### J 111

	AMOUNT	% OF	COMPOSITE		
MURCE	SUPPLIED	THITAL	IMPORTANCE	1/41	2017033
USTRALIA	100.	0.15	0. 92	1.087	0.141
J S	16100.	23, 82	2, 56	0.391	୨ ଓ 19
HAILAND	5900.	8 <b>7</b> 3	0. 92	1,087	역, 4등의
NIMMESIA	5500.	<b>8</b> , 58	0. 92	1.057	9 322
ik:	100.	0.15	1. 96	0.510	0. 075
OLIVIA	10300.	15, 24	0. 98	1 020	15 548
RH2IL	2400	3, 55	0.86	1.162	4. 125
RO	3000.	4. 44	2. 47	0.405	1. 796
1ALAYSIA	23900.	35, 36	0. 92	1. 087	38, 414
•					

TOTAL: 67600, 100,00

## CUMPOSITE IMPORTANCE (LOC 3)

#### NICHEL

:	Al Selection	% OF	Court DE LOE	•	
SOURCE	Stiere 1ED	TUT AL	IMPOSTANCE	1/CI	1.0100
FINLAND	1000.	0.33	1. 92	0, 520	0. 171
DUTH AFRICA	<b>50</b> 00	1 64	1. 19	O. 841	1 7 . 1
HILIPPINES	5.0000	1 64	Q. 92	1.097	1 7:
AUSTRALIA	2000.C	8, 21	0.92	1 0:7	본 학교
GINADA	150000.	49, 28	2, 89	O. 345	17 054
S	8900	공연 연호	2. 54	O. 251	11 7
GREECE	<b>6</b> 3000	0.20	1 93	$\phi_{i} \downarrow 10$	6 3 0 3
TETHERLANDS	200	0.07	1.96	0.510	$\mathcal{L} := \widehat{\mathbf{v}_{i}} \cdot \cdots \widehat{\mathbf{v}_{i}}$
The same same	1 (100)	0, 0	1,96	0.50	r - 1, 1
YUGDSLAVIA	200	0.16	1.96	0.510	C 05%
USOR	E. 1611	1.64	(1)	1 MA1	1.74.
OM REPUE	15000	4 93	1.53	0.656	3 2.7
JATAMALA	4 996.	1.31	1, 53	0.656	0.831
INDONESIA	5,000	1.64	0. 92	1. 057	1.742
		100 30			

T074L- 304400, 100,00

COM 30018 215 053 4N E. (EQC 3)

### FLUORIERAR ACII

DURCE DUTH AFRICA J S LTALY PAIN LAST AFRICA	AMUUNT SUPPLIED 180. 70. 60 100. 25.	% OF TOTAL 21 86 8 70 8 07 11 41 3 11 1 86	00MP05ITE IME06THNCE 1 FY 2 56 1 MS 1 96 0 71 0 92	1711 0.841 0.891 0.510 0.510 1.404 1.097	7, 170 1 18 817 3, 402 4, 120 4, 338 4, 338 2, 600
THAILAND EXICO	15. 350 	1, 86 43, 48 	2 56 0 82	1. OF 7 O 39)	17 0.1

TOTAL: 805. 100.00

COMPOSITE IMPORTANCE (LOC 3)

#### PYRETHRUM

01     1.19     0.841     0.852       76     0.92     1.087     0.803       57     1.96     0.510     2.843       51     0.71     1.404     56.803       66     0.71     1.404     17.767       49     0.71     1.404     50.433

TOTAL: 197500. 100.00

# SOUPCE INFORTANCE (LOG 3)

<b>3</b> . 5	u-tu <b>£</b>	%(1/01) 0 Me/ In-	FB/SHORTFALL CRITTERLITY		NOF54 7 _ 10 1.1
ZA	JRE MEJA NADA	72, 19% 29, 260 2, 1% 10, 061	7, 81 7, 81 7, 81 7, 81 7, 81	563, <b>70</b> 181, 6 <b>4</b> 16, 93 78, 5 <b>7</b>	32 1 1 8 6.
. — TH IS UN RO BA PS	AILAND PONESIA LIVIA AZIL	0, 141 9, 319 9, 483 9, 322 0, 075 15, 548 4, 125 1, 794 38, 414	0 00 0 00 0 00 0 01 0 00 0 00 0 00 0 00	0 60 0 33 0 03 0 03 0 03 0 03 0 00 0 00	0, 00 0 C 0, 01 0, 02 0, 00 0, 60
SC FIE AU CA UI OF NE FE YU US US OF OF OF OF OF OF OF OF OF OF OF OF OF	NLA MO DUTH AFRICA MILIPPINES DUTRALIA NAIA S SECE THERLANDS	0. 171 1 381 1. 705 8 804 17. 054 11. 311 0 101 0 084 0. 017 0. 084 1. 742 3. 230 0. 861 1. 785		1, 71 13, 81 17, 85 82, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 32, 30 8, 61 17, 85	2, 43 3, 17 13, 53 30, 20 20, 07 0, 15 0, 04 0, 03 0, 10 3, 09 5, 73
SO U IT SF E	RSPAR ACID DUTH AFRICA S FALY PAIN AST AFRICA HAILAND EXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, <b>5</b> 2	5, 16 6, 25 9, 62 6, 61 3, 07
O SI AI UI KI KI	THRUM DUTH AFRICA USTRALIA K ENYA WANDA ANZANIA	0, 852 0, 825 2, 842 56, 850 17, 767 55, 433	4, 30 4, 30 4, 30 4, 30 4, 30 4, 30	3, <b>66</b> 3, 55 12, 21 244, 29 76, 34 238, 18	0, 63 2, 17 43, 34 13, 54

### SOURCE IMPORTANCE RAMED BY SOURCE (LOC 2)

	entre e	COMMODITY COSALT AYRE FAUN PYRETHRUM CODRUT NICKEL	VALUE
K. (1	SOURCE 2AIRE	CHATTA T	100.00 -
1		Living Table 161	43 34
1	HENYA	PYRETHRUM	42. 25
3	TANZANIA	ning (mbys) come r	32, 22
. 4	ZAMEIA	<u>にいいまた。</u>	30 25
- 1	CANADA	NICKEL FLOGGEAF ACID	
6	SOUTH AFRICA		
<b>=</b> 7	MEXICO	FLUORSFAR ASID	20 81
€:	N S	NICKEL.	20.07
9	AUSTRAL1A	NICKEL	$15 \pm j$
10	US	COBALT	13 😅
1	F1041狂俗	FYRETHEAST	13.52
ı2	SPAIN	FLUORISEAR ACID	₩. 6
13	EAST AFRICA	FLUGESPAR ACID	<i>5</i> €1
4	ITALY	FLUORSFAR ACID	& 2 ×
5	MEXICO U S AUSTRALIA U S FWAUWA SPAIN EAST AFFICA ITALY DOM, REPUB	NICHEL	5.70
16	u s	FLUORSPAR ACID	5 17
17	INDONESIA	NICKEL	3 17
ģ	PHILIPPINES	NICKEL	₽ 1
19	USSR	NICKEL	3. 69
20	THAILAND	FLUCKSPAR ACID	3 (
1	CANADA	COBALT	3.01
2		NICKEL	2.41
23	SOUTH AFRICA UN	PYRETHRUM	2.17
	GUATAMALA	NICKEL	1.5.3
45			0.85
	SOUTH AFRICA	PYRETHRUM	0.63
26	AUSTRALIA	NICKEL	0.30
27 일 29	FINLAND	NICHEL	0.18
	OFFEEGE	NICKEL	0.15
47	YUGOSLAVIA	NICKEL	0, 04
30 1	NETHERLANDS	NICKEL	0.03
	FFG	TIN	0, 00
1. 2	MALAYSIA		0.00
33	PRO	TIN	0.00
- 4 - 5	BRAZIL	TIN	<b>0</b> , 00
5	BOLIVIA	TIN	0.00
36	LH	TIN	= :
27	INDONESIA	TIN	0.00
: ≘:	THAILANL	TIN	<b>0</b> , 00
J9	US	TIN	0, 00
40	AUSTRALIA	TIN	0.00
1.	CANADA	NICKEL	30, 25
1.2	AUSTRALIA	NICKEL	15, 83
43	PHILIPPINES	NICKEL	3. 17
^4	SOUTH AFRICA	NICKEL	2. 45
5	FINLAND	NICKEL	0. 30
46	MALAYSIA	TIN	0, 00
	E-E-A	T 7 + 1	

SCENARIO 16

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                 Level of Conflict 3 Media 1
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SOEF 0.1071
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COEF 0 5881 0 2858 0 1176 0 0588
            INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
            or the importance of Controlling EAIH region within its own Deli-
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# FORCE ELEMENT IMPORTANCE (LDC S)

	ELEMENT	FORCE ELEMENT	CALCULATED	NOFMALIZEZ
RANCING	NUMBER	t = haĒ	VALUE	
1	17	CARRIER INTLE GROVE	0.139	10t 000
2	1	AIR INTERNICTION	0 110	7. <b>8</b> .5 :
3	3	ARMY OF DUMP	0.095	6 84T
4	1 &	ATTACK EUDE	0.073	5 227
5	1 🕾	SUFFACE COMESTANTS	$\subseteq O_{\mathbb{Z}} O$	4 277
6		RAPID DERLEY	0.01.3	4 14 -
7	12	THEATER NUCLEAR WEATON	0.054	3 851
8	14	ASW(LAND PASED)	0.043	
9		048	0.040	
10		AIR SUPERIORITY(LAND PA	SED) 0 033	2 732
11		ASVICES DOSETH	0.002	2.312
12		AIR SUPERIORITY (SHIP BA		
13		AIR DEFENSE (SHIP BASED)		
14		STRATEGIC BOMLER	0.025	
15		SPOE BABED WEAPON(AIR C		
1 &	1 🗈			
17		ASAT(SPACE BASED)	0.013	
1 🖹	18	MINE WARFARE	0.013	
19	2	AMEHIBIOUS ASSAULT	0.010	
20	28	ASAT(LAND BASED)	0.007	
21		AIR DEFENSE (LAND BASED)		
22	9	SPCE-BASED WEAPON(LND C		
23		SPICE DASED WEAPON/SEA C		
24	27	· · · · · · · · · · · · · · · · · · ·	0.000	
25		ARM(LAND BACED)	0.000	
26		INTERCEPTUR AIRCRAFT	0.000	
27	1.1	SLBM	0. 000	
28	7	ICEC	0.001	
29	5	CIVIL DEFENSE	0, 000	
30	4	CBW	0.000	Q QQ3

## COMMODITY IMPORTANCE (LOC 3)

### COBALT

AIR INTERDICTION	5 44
ARMY GROUND	4, 19
CAS	1.62
ICBM	0, 00
STRATEGIC BOMBER	1.76
SLBM	0. 00
ASW(SEA BASED)	1, 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4 29
AIR SUPERIORITY(LAND BASED)	2, 73
AIR SUPERIORITY(SHIP BASED)	2.16
INTERCEPTOR AIRCRAFT	0.00
ABAT(LAND BABED)	0, 52

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. 10			
AIR INTERLIGITION	5 60		
ARMY GROUND	1 3 S		
<u>[#3</u> ]	1 7	-	
STRATEGIC BIMIER	1 74	·	
ABW(LAND BABEL)	⊕ 0° 1. 11		
ASW(SEA BASED) ATTACK SUBS			
	10.00		
MINE WARFARE	()		
SURFACE COMBATANTS	Δ 2.5		
AIR SUPERICRITY(LAND EARED)	2 16		
AIR SUPERIORITY(SHIP BASED) INTERCEPTOR AIRCRAFT	2 10 3 6.		
ABM(LAND BASED)	Q. (6.)		
	40 47		
NICKEL			
AIR INTERDICTION	5 91		
AIR IR EADIU II IR ARMY BAQUND	2 54		
CAS	1 60		
STRATEGIC BOMDER	1 78		
ASW(EFA BARMI)	1. 71		
ATTACK SUBS	5, 23 10, 00	PYRETHRUM	
CARRIER BATTLE GROUP MINE WARFARE	0.92		
SURFACE COMBATANTS			<u> </u>
AIR SUPERIORITY(LAND BASED)	2, 73	CIVIL DEFENSE	0. 00
AIR SUPERIORITY (SHIP BASED)			O 14
INTERCEPTOR AIRCRAFT		CARRIER BATTLE GROUF SURFACE COMBATANTS	10,00 4,29
	40, 30	SORPHUE COMERTAINES	4. <u>4. 1</u>
			16.91
FLUORBRAR ACID			•
	6, 79	TIN	10.00 ( 40 4)
AMPHIBIOUS ASSAULT		NICKEL	9,96 <b>( 4</b> 0 3
ARMY GRUUND CAS	3, 52 1, 90	FLUGRSPAR ACID	ଟ. <b>ଅ1 (</b> ଓଡ଼ିଆ ଅ <b>୫.୫୦ (</b> ଓଡ଼ିଆ
ICBM		FYRETHEUM	4.18 (16.9
STRATEGIC BOMBER	1. 76		
SLBM	0. 00		
ASW(LAND BASED)	3. 09		-

1, 63

 $\frac{2}{0}$   $\frac{16}{00}$ 

 $O \cap O \cap$ 

10 00 4, 29 2 73

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AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED)

ASW(SEA BASED)

PARRIER DATTLE GROUP

INTERCEPTOR AIRCRAFT

SURFACE COMBATANTS

ADM(LAND BASED)

```
CONALT
                                                      67 402E
             CAS
A-10
5015-F
             C \leftarrow E
                                                       41
F-4
                                                       ÇŒ
             AIR INTERDICTION
                                                         5102
             CAE
                                                          7433
                                                     201
33 44
143 3
F-16
                  INTERILITIES
             AIF
             Carlo
                                                          2701
ART. ACRET CAS
                                                          07:5
RADIO RLAY AIR INTERDICTION
                                                          5176
1503
6751
             CAB
F-111
             AIF
                  INTE-DICTION
             AIR INTERBICTION
A-6
                                                      54 7335
F-15
             AIR INTERDICTION
             AIR INTERBUITION.
                                                       49 2901
A-7
F-14
             AIR INTERDICTION
                                                      41 0501
             AIR INTERDISTION
                                                         4115
F-18
                                                       6€
             ASWISEA BASED
                                                       6 0613
SH-2
             ASM(SEA BASED)
                                                      15 1709
                                                      23 Engl
             ABW(SEA BASET
SH-602
9-3
             ASW(SEA BASED)
                                                       34 6761
ATT.
      SUBS
             ABW(SEA BASEI)
                                                      24 0807
FRIGATES
             ASW(SEA BASED)
                                                       14 4484
DETROYERS
             ASW(SEA BASED)
                                                       8 6690
                                                       35. 2003
M-48
             ARMY GROUND
M-40
             ARMY GROUND
                                                       56 3724
                                                      62, 8592
M-1
             ARMY GROUND
M-551
             ARMY GROUND
                                                       Ç.
                                                      50 2844
M-901
             ARMY GROUND
             APMY GROUND
M-2/M-3
                                                       44 0008
             ARMY GROUND
M-112
                                                       4, 8890
                                                       18, 8575
MLRS
             ARMY BROUND
TOWED ART.
             ARMY GROUND
                                                       25, 1433
SELF-PAGE
             ARMY GREENINE
                                                       33, 5244
                                                       16, 7622
PERSHING
             ARMY GROUND
GLOMS
             ARMY GROUND
                                                       27, 9370
INFANTEY
             ARMY GROUND

 9842

MORTERS
             ARMY GROUND
                                                       34, 222E
ROLES LNOH ARMY GROUND
                                                        1. 4667
```

9554 9163 5313 3611 2319 1707 7000 7671 4900 6488 5729 3333 0000 8583 7789 7789 7222 2685 0417 100 100 100 5962 **547**3 4732 1042 083**4** 0000 7.0° 30.65 4444 ರಿಯಯಾಗುಗಳಿಕಿಕಿಕಿಕಿಯಯಯಯನನನನನನನೆಗಳಿಸಿಸಿಕಿಕಿನಲ್ಲಿನಿಂದನ NORMALIZED VALUES F-111 F-16 RODIO FLAY SUBS ART **UNITERINERS** SELF-PROP SNIHOULD L FRIGATES MORTERS COBRA M-2/M-3 3H-60B LOMED SMUTE M-901 M. RO F-14 M-48 A-10 M-1 M-60 F-15 F-13 A-7 9-6 (9) 1 (0) F-4

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4079
CIÉF.
              643
                                                              <u>-</u>
                                                                    : : :
F-4
              AIR INTERDICTION
                                                                  5202
                                                                  7403
4163
4213
              ÇΔ¢
               272
                    IMPERDICTION
              64.
      ACRET CAE
                                                                  9701
0788
AS.T
RADIO RLAY AIR INTERDICTION
                                                             :
123
                                                                  E. _ _ .
              645
F-111
                   INTERBUCTION
              AIF
                                                                  1503
                   THITEREDIETIEN
A-6
              AIR
                                                                  5:32
                                                              41
F-15
              AIR INTERDICTION
                                                              54
                                                                 7 : - 7
4-7
                                                                  27.13
              AIR INTERTITION
                                                              4
F-14
              AIR INTERDICTION
                                                              46
                                                                  1514
च - । हा
              AIR INTERNITTION.
                                                                  7 9 7 7
                                                                  2014
5.44 - 5
              ABW(BEA BABED)
                                                                  COE.
되니~고
              ASW: SEA BASED
                                                              _ ;;,
                                                                  117
SH-60F
              ABANSEA BABED.
9-3
              ASW(SEA BASED)
                                                              3.4
                                                                  6761
ATT
      SILIES
              ASKISEA BASEDI
                                                              14
                                                                 449:4
FRIGATES
                                                              14
              ASW(SEA BASED)
                                                                  4434
DETROYERS
              ABWYEEA BASED
                                                               Ξ
                                                                  6490
M-4 E
              ARMY GROUND
                                                                  9112
                                                                 2556
6212
M-60
              ARMY GROUND
                                                               6.
              ARM GROUNT
11-1
                                                               34
M-551
              AFTY BEILING
                                                               Ç.
                                                                 (G_{\mathbb{C}} \times_{\mathbb{C}})
M-901
              AFMY GROUND
                                                                  2953
                                                               Ŀ
                                                                 2858
M-2/M-3
              ARM. GROUNI
                                                               6
              ARMY GROUND
M-113
                                                               0. 6984
MLRE
              ARTH GROUND
                                                               Ξ,
                                                                  4187
TOWED ART
              ARMY GROUND
                                                               4
                                                                  1905
SELFHERER
              ARMY GROUND
                                                               5 5974
PERSHING
              ARMY GROWNIA
                                                              14.6665
GLOME
              ARMY GROUND
                                                              24 4445
              ARMY GROUND
INFAUTEY
                                                              55. E740
MURTERS
              ARMY GROUND
                                                                4.8890
ROLES LNCH ARMY GROUND
                                                                  2095
                               2705
                                                                1732
1732
0559
                                                                                           5000
                                   2500
                                      4732
                                        1598
                                          5371
                                            4444
                                               0000
                                                 7500
                                                   3750
                                                     7000
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                                                          0.80
                                                            6475
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                                                                       11:11
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5104
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5104
                                                                                  16:61
                                                                                    45.07
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                             <mark>ರಯಯಾಶಗಳನ್ನೆ ಅ</mark>ಪ್ಪಸ್ಥಿಸಿಸಿಕಿ ಕಿರಿದ್ದಾರ್ದರ್ ಅದ್ದಾರ್ ಅ
                           NORMALIZED VALUES
```

INFANTRY F-15 A-7 F-14

A-6  $\frac{1}{2} \stackrel{(i)}{=} 0$ 

TORRA

-111

F-16

F-4

01 - H Q-10 67

RADIO RLAY

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DOMED GET

भारा

MURITERIA.

6 - E

DSTROYERS M-2/M-3

9H-2 MLR6

ATT

TOG-W

PERSHING. FRIGATES

94-60B

0M016

TIN. 4-15

i

CAS

NICHEL		
A-10	CAS	67 4029
DODRA	űA E	44
F-4	AIR INTERDICTION	71 8902
	CAS	5 0532
F-14	AIR INTERDICTION	68 4165
		37.44.3
ART. ACRET		2 2469
RADIO RLAY		3 0733
	CAS	5 5174
F-111	AIR INTERDICTION	2 5174 123 1503
4-6	AIR INTERDICTION	54 5451
F-15	AIR INTERDICTION	54 7335
A-7	AIR INVERDICTION	49 2401
F-14	AIR INTERDICTION	46 18:4
F-18	AIR INTERDICTION	70 9689
98-3	ASW(SEA BASED)	A. 4 17.1
SH-2	ASW(SEA BASED)	17, 3381
되어~심어판	ABW(SEA BASED)	24 9703
5,-3;	ASW(SEA BASED)	54 6761
ATT, SUBS	ASW(SEA BASED)	43 3452
FRIGATES	ASW(SEA BASED)	24 0071
DSTROYERS	ASW(SEA BASED)	15 6043
M-49	ARMY GROUND	BF. 1112
M-60	ARMY GROUND	62 8592
r:-1	ARMY GROUND	49 8415
M-551	ARMY GROUND	0 65.4
M-901	ARMY GROUND	<b>44</b> 0000
M-1, M-3	ARMY GROUND	50 2866
M-113	ARMY GROUND	4 8890
MLRE	ARMY GROUND	18,8575
TOWED ART.	ARMY GROUND	33, 5244
SELF-PRIM	ARMY GROUND	44 6002
PERBHING	ARMY GROUND	16, 7622
GLCMS	ARMY GROUND	20, 9527
INFANTRY	ARMY GROUND	34, 9212
MURTERS	ARM+ GROUND	14, 6669
ROLES LNOH	ARMY GROUND	0. 2095
	•	

6296 5729 5197 1759 99900 8357 8158 7222 1900 1110 7014 5313 3611 2671 1910 5632 O. C. 0000 7500 6488 0834 :: ::_ 666666666666 KANTO FLAY H-112 ACT ACHET A-6 INFANTRY S-3 TOWED ART. SH-60B FRIGATES M-901 ATT, SUBS DUTENYERS SELF-PROP. SH-Z PERSHING M-2/M-3 A-7 MIRTERS GLCMS MLRS COERA F-111 M-40 F-14 0113 F-18 M-1 F-16 F-4 A-10 09-W F-15

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FLUGRSPAR ACID
                                                      84 2536
            CAS
A-10
                                                      44 777
            243
CILEA
                                                     123, 1503
8, 4274
87, 5210
            AIR INTERIICTION
F-4
            CAE
                                                         5210
                 INTERPLICATION
            4.72
F-16
                                                      41 8075
            CAE
                                                       3, 3701
ART. ACRET CAS
                                                       3
                                                         0783
RADIO RLAY AIR INTERDICTION
                                                         5276
             5 <u>4-9</u>
                                                     155 937±
            AIR INTERLICTION
F-111
                                                      46 1814
             AIR INTERDICTION
4-6
                                                      68 A168
             AIR INTERDICTION
F-15
                                                         5751
                                                      €1.
             AIR INTERDICTION
A-7
                                                      - 1
                                                         3126
             AIR INTERBICTION
F-14
                                                      ξũ
                                                          50.10
             AIR INTERDIGATION
F-12
                                                       6. 9352
             ASK(SEA BASED)
2H-3
                                                          33F1
                                                      17
             ABW(BEA BAYED)
54-I
                                                      일말, 711년
             ABW(BEA BASED)
5H-601
                                                          5452
                                                      43
             ASW (SEA BASED)
5-3
                                                      28, 8963
             ASW(SEA BASED)
ATT. SUMS
                                                      20 2277
             ASW(SEA BASED)
FRIGATES
                                                         1317
             ASW(SEA BASED)
DISTROYERS
                                                       11, 7335
             ARMY GROUND
M-48
                                                       13 8575
             APMY GROUND
M-40
                                                       23 9527
             APMY GROUND
M-1
                                                        0.2095
             ARMY GROUND
 1-551
                                                       50 2566
50, 2866
             ARMY GROUND
 14-9:1
             ARMY GROUNT
 <u> 村ーコノガー 3</u>
                                                        5, 5874
             ARKY GROUND
 M-113
                                                       15, 7144
 MLRE
             ARMY GROUND
                                                       20, 9527
             ARMY GROUND
 TOWER APT
                                                       ARMY GROUND
 항문도로구현되었다.
                                                       14,6665
             ARMY GROUND
 PERSHING
                                                       24 44.5
             ARMY GROUND
 GLEMB
                                                       55 8740
 INFAUTER
             ARMY GROUND
                                                       24, 4449
             ARMY GROUND
 MORTERS
                                                        0, 2095
 ROLES LNOH ARMY GROUND
```

364 7884 76.11 877.2 8143 5680 5880 5880 3611 3140 2250 1163 0108 0508 0000 62°C 9333 2667 2667 9101 9150 1900 0000 5473 5556 4732 4444 ರೃಷ್ಣಾರ್ಥಕಕ್ಷಣ್ಣಿಪಪಡೆಗಳು ಮತ್ತತ್ತಿಕ NORMALIZED VALUES ACRET HIMI SITT FIL AY ATT, SUBS SELF-PROP. ART DSTROYERS PERSHING RIGATES INFANTRY MORTERS **C**O M-2/M-0 M-901 OF THE SH-60B TUMED COERA SMOUS F-18 A-10 F-15 M-60 9H-2 MLRS ®₩-W -14 F-16 (0) 1 (0) F-4 A-7

FIVEETHELLING		
ATT. SUBS	ASK(SEA BASED)	រូក ក្រុ
M-47	PEMA DEDUKT	
M-60	ARMY GROUND	<b>4</b> 4,0008
M-113	PERA GEORGE	<b>4</b> 8 8 9 9 0 −
TOWED ART	Attis GEDUKD	<u> </u>
SELF-FROM.	AFIN GELUKŪ	골위, <b>111</b> 원
INFANTRY	ARMY GROUND	49, 8 <b>4</b> 25
MORTERS	ARMY GROUND	8 <b>4</b> 2229

INFANTRY	10.0000
M-19	<u> </u>
SELFHERDE	5, 6000
MURTERS	<u>#</u> , ₽00.
TOWEL ART.	4. 2000
M-4E	3. PJ00
ATT, SLES	2 Q4B
M-113	0.7000

```
ALL COMMODDITIES
A-10
             CAS
                                                      2. 8644
复复数配合
             CAE
                                                      1 6272
F'-4
            AIR INTERDITTION
                                                      3 94.5
            CAE
                                                      O. 2696
F-16
            AIR INTERDICTION
            1.5715
ART. ACRET CAS
                                                      0 1236
RADIO RLAY AIR INTERDICTION
                                                      0.1232
            CAS
                                                      0.1011
F-111
            AIR INTERDICTION
                                                        2333
                                                      5
A-6
            AIR INTERDICTION
                                                      1.6163
F-15
            AIR INTERDICTION
                                                      1 3262
2 0936
4-7
            AIR INTERDICTION
F-14
            AIR INTERDICTION
                                                      1 8475
F-18
            AIR INTERDICTION
                                                      3. <mark>07</mark>89
5---
            ASW(SEA BASEI)
                                                      0.2914
SH-2
            ASW(SEA BASED)
                                                      0. 6285
SHELOF
            ASW(SEA BASED)
                                                      1,0451
\Xi = \Xi
            ABW(SEA BASEL)
                                                      1.4737
ATT. SUBS
            ASW(SEA BASED)
                                                      1. 2522
FRIGATES
            ASW(SEA BASED)
                                                      0.7513
DSTROYERS
            ASW(SEA BASED)
                                                      0.4508
M-48
            ARMY GROUND
                                                      1.1734
M-60
            ARMY GROUND
                                                      1 8857
M-1
            AFMY GROUND
                                                      1 8857
M-551
            ARMY GROUND
                                                     0.0119
M-901
            ARMY GROUND
                                                     1,5086
M-2/M-3
            ARMY GROUND
                                                     1,5096
M-113
            ARMY GROUND
                                                     0. 2095
MURE
            ARMY GROUNI
                                                     0.62-6
TOWED ART
            ARMY GROUND
                                                     1.1314
SELF-PROP
            ARMY GROUND
                                                     1,50%
PERSHING
            ARMY GROUND
                                                     0.4234
GLCMS.
            ARMY GROUND
                                                     0.9778
INFANTRY
            ARMY GROUND
                                                     2, 2350
MORVERS
            ARMY GROUND
                                                     1, 1245
ROLES LNOH ARMY GROUND
                                                     0.0210
```

17

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IZED VALUES							RY							0		PROP.		Sings	ART.	ú			ES				FRS		RLAY			I Z	
NORMAL	- 1	F-16	Ĺ	-1	7	7	INFANT	A-7	COERA	M-1	09-W	F-14	A-6	M-2/M-	M-901	- 1	en t tis	ATT, S	_	EL.	$\circ$	en.	-	H	MLRO	Ŧ	<b>OTRO</b>	or H	RADIO	-11	ORT A		5

S  $\phi$   $\overline{D}$  A  $\phi$  A  $\overline{D}$  A  $\overline{D}$  A  $\overline{D}$  A  $\overline{D}$  A  $\phi$   $\overline{D}$  A  #### CRITICALITY OF SHORTFALL

ALL FE 5 (L05 3)

COMMODITY	GUAL (UNITS)	STOCK FILE (UNITS)	SHIFT FALL (%)	TRANS- LATED	FE/ - EMOLITY - IMPORT		RIPMALITET FEXSHPTFAUL CRITICALITY
MALT	85 4	43 8	-4E 7	402 5	8, 4	33 <b>7</b> 99	2
f 4	42 0	190.4	973 E	Ç. Ç	10.0	- Q. Q	1:
CKEL	200.0	32, 2	-୫୬ ୧	437.7	10. O	4358 1	$1 \subset \mathbb{C}$
LIOFSPAR ACID	1400. O	895. O	-36 1	389. 9	오. 5	3708 3	8. <b>5</b>
RETHRUM	2000 O	0.00	-160 O	453 8	4 2	1897.6	4 4

## COMPOSITE IMPOFTANCE (LOC 3)

#### CCIALT

URCE NLAND ROCCO TSWANNA UTH AFRICA TIRE ULIPPINES STRALIA W CALEDONIA	AMOUNT SUMPLIEI 1850 450. 250. 150. 12500 50 400. 250	% 05 TOTHL 7, 71 1, 43 0, 86 71, 43 0, 25 2, 29 1, 43	00000000000000000000000000000000000000	9 589 0 487 0 569 0 422 0 548 1 214 1 214 1 214	5. 1 (1) 4 477 4 272 0 843 0 371 40 873 0 347 2 737
NAILA	1100. 1000.	6 29 5 71	2. 61 2. 31	O 383 O 432	2 471

TOTAL: 17500. 100.00

## COMPOSITE IMPORTANCE (LOC 3)

#### TIN ·

		AMOUNT	% OF	COMPOSITE		
LIRGE		SUPPLIED	TOTAL	IMPURTANCE	1/01	%(1/EI)
JSTRALIA		100.	0.15	0.82	1.216	0.180
.8		16100.	23, 82	2, 31	0 432	10, 2학원
AILAND		5900.	8, 73	0.82	1, 216	10, 611
NOONESIA		5800.	8, 58	O. 82	1, 216	10 431
(		100.	0.15	1. 76	O. 569	0.094
LIVIA	•	10300.	15, 24	O 90	1 117	17 014
LAZIL		2400.	3, 55	0. 90	1. 117	3, 964
RC		3000.	4.44	2, 33	0. 429	1, POS
FLAYSIA		23900.	35. 34	0. 82	1. 216	42,983
•						
	TOTAL:	<b>676</b> 00.	100,00			

## COMPOSITE IMPORTABLE (1200 8)

#### NICHEL

Į.	£ 100.0	· • •	00 -091TE		
t 利用定臣	SUPPLIS		IMPORTAND		. 1
FILAND	1000.	0.33	1, 72	0.580	1 1
ITH AFRICA	5000	1. 44	2. 81	0.432	
ILIPPINES	<u>ទ</u> ួញ់ស្ថិ	4. 64	0, 82	1 214	: :
BTEALIA	25000	5 21	0.92	1 211	: :
NADA	150000	49 2E	2.61	0 383	11 177
Ē	88000.	28, 91	2 31	0 411	1.7
EECE	<u>600</u>	Q. 20	1.70	ల క్లా	0 111
FHERLANDS	200.	. ○ O7	1.76	(j) 트립스 (T	4
3	100.	0.03	1.74	, <u> </u>	
GOSLAVIA	500	0-16	1.76	O 5-5	Q Q 4
SR	5000.	1. 64	( €	1 1 202	1 4 1
1 REPUE	15000.	<b>4</b> . 93	1 33	0.717	<u> </u>
ATAMALA	4000.	1.31	1, 22	0.727	4 FTD
DONESIA	5000	1.64	0 81	1 216	1 ***
	TOTAL 304400	100-00			

COMPOSITE INFOFTANCE (LOC 3)

#### FLUCRISHAF ALIE

JTH AFRICA

ST AFRICA MAILAND KICO

	AMOUNT SUPPLIED 180. 70. 65. 100. 20. 15. 350	% OF 10TAL 22 36 8.70 9.07 12.42 3.11 1.86 43.49	2 31 1, 74 1, 74 1, 74 0, 82	1/01 0 432 0 432 0 589 0 589 1 214 0 431	1,1701) 8,623 9,740 4,533 7,071 1,768 2,245 16,811
TOTAL:	805.	100 00	2 21	· · · · · · · · · · · · · · · · · · ·	• - • •

COMPOSITE IMPORTANCE (LOC 3)

#### FYRETHRUM

URCE DUTH AFRICA GTRALIA NYA NAMBA	AMOUNT SUPPLIED 2000, 1500, 11000, 80000, 25000,	% OF TOTAL 1. 01 0. 76 5. 57 40. 51 12. 66	COMPOSITE IMPORTANCE 2.31 0.82 1.76 1.76 1.76	1/CI 0, 432 1, 216 0, 569 0, 569 0, 569	%(1/CI) 0 433 0 923 3 171 23 663 7, 207
IANDA - IZANIA	<b>7</b> 8000.	ଞ୍ଚ. <b>4</b> ଚ	1. 76	0 569	<b>22</b> , 487

TOTAL: 197500 100.00

## SOURCE IMPORTANCE

SOURCE		FEXE-ONTFALL ORITICALITY		MITMS_1760 TO 100
PALT FINLAND MURDOCO BOTSWANNA SOUTH AFRICA AIRE PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA US	4 477 1, 252 0, 813 0 371 40 470 0, 347 2 779 1 737 2 403 1 471	7. 76 7. 76 7. 76 7. 76 7. 76 7. 76 7. 76 7. 76 7. 76	30 72 9 71 6 31 2 87 315 42 1 55 1 2 47 1 5 47 1 5 1 5	11: 01 3: 08 2: 00 0 % 1 10: 00 - 1 6: 83 4: 17 5: 92 - 1:
AUSTRALIA UUS THAILAND INDONEBIA UR PULIVIA PRAZIL PRO MALESIA	0 150 1 250 10 611 10 431 0 974 17 614 2 5 4 1 765 42 533	6 04 6 00 6 00 6 00 6 00 6 00 6 00 6 00	6 60 6 60 6 60 6 60 6 60 6 60 6 60	0 01 0 02 0 00 0 00 0 00 0 00 1 00 1 00
NICHEL FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U.S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0 151 0 710 1 997 9 985 18 877 12 501 0 112 0 037 0 019 0 039 1 905 3 582 0 955 1 997	10 00 10 00	1 91 7, 10 19 97 96 85 188, 77 125 01 1, 12 0, 37 0, 19 0, 94 19, 05 35, 82 9, 55 19, 97	0 60 2 23 6 23 59 85 9 0 12 0 0 12 0 0 60 6 04 11 36 8 33 6 33
FLUORSFAR ACID SOUTH AFRICA U S ITALY SFAIN EAST AFRICA THAILAND MEXICO	9, 669 3, 760 4, 597 7, 073 1, 769 2, 265 18, 801	8:51 8:51 8:51 8:51 8:51 8:51	82, 28 82, 00 89, 12 60, 19 15, 05 19, 28 159, 98	26, 09 10, 14 12, 40 19, 08 4, 77 6, 11 50, 72
PRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 438 0, 923 3, 171 23, 043 7, 207 22, 487	4 35 4 35 4 35 4 35 4 35 4 35	1 91 4 02 13 81 100 42 31 38 97, 91	0 60 1,27 4,38 91,84 9,95 91 04

## SQUACE IMPOSTANCE RANGED BY SCURCE (LOL 3)

#	SOURCE	COMMODITY	VALUE
4:	ZATRE	CCDALT	100.00
ļ:	JANADA	NIC+EL	59.85 ⁻
3	MEXICO	FLUORSPAR ACID	50, 72
.4	U S	COMMODITY CODALT NICHEL FLUCKSPAR ACID NICHEL FRESHADI NICHEL FRESHADI NICHEL RUCKSPARIA	39, 63
	FENYA	FrEzimeli	31.84
7	AUSTRALIA	NILEEL	31 66
7	TANIANIA	FYRETHRUM	31 04
e 도	SOUTH AFRICA	RILTEL RYRETHRUM FLUCRSPAR ACID FLUCRSPAR ACID	©de Oe
€	SFAIN	FLUDRSHAF ACII	1F 0B
0	ITALY	FLUOPSPAR ACID	12.40
1	INDM REPUB	NICHEL	11 38
2	FINLE 4D	COPALT	11.01
2	ប្ទ	FLUCESPAR ACID	
4	RWANDA	HYRETHRUM	စာ စာ
=	AUSTRALIA	COEALT	6 83
2	INDONES1A	NICKEL	4 23
7	PHILIPPINES	NICKEL	4, 33
=	THAILAMD	FLUGHSMAN ACCD	4 11
ģ.	US	COPALT	Ž. ČŠ
0.65 = 24.0	บรรส	NICHEL	4 0€
1	CANADA	CORALT	- - - - -
12	EAST AFF.104	FLUCHSERF ACLD	토 영화 육 77
ĖΞ	UF	PYRETHRUM	4 P9
24	NEW CALEDONIA	COBALT	4. 7.3
=	MORODOO	COBALT	3 03
5 4:7	GUATAMALA	NICHEL	Š. ÚB
27	SOUTH AFRICA	NICKEL	2, 25
=	BETBRANNA	COBALT	2 00
	AUSTRALIA	FYRETHRUM	1. 27
o .	SOUTH AFRICA	COBALT	0.91
1	PHIL1PPINES	COBALT	0.85
Ŧ,	SOUTH AFRICA	FYRETHRUM	0, 60
74 N 33	FINLAND	NICKEL	0. 60
4	GREECE	NICKEL	0.34
į.	YUGOSLAVIA	NICKEL	ō. 2ō
1	NETHERLANDS	NICKEL	0 12
7	FRG	NICKEL	0.06
Ś	MALAYSIA	TIN	0, 00
. 7	PRC	TIN	0.00
Ö	BRAZIL	TIN	0.00
	BOLIVIA	TIN	0.00
12345	UK	TIN	0.00
	INDONESIA	TIN	0.00
Z	THAILAND	TIN	0.00
<u>-</u>	U S	TIN	0.00
ŀ	AUSTRALIA	TIN	0.00
3	DODINGLIA	1 714	0.00

SCENARIO 17

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                    Level of Corflict 3 Media 1
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        10.0
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                  10 0
| OEF 0. 1543 0 1543 0 1094 0 0781 0 1094 0. 1543 0. 0813 0. 0781 0 0813 0 0
                    Level of Cortlact B Media 2
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ight 9.0
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IOEF 0.1071
                    Level of Conflict 3 Media 3
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                 10.0 10.0 10.0
                                             6 O
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OEF 0 1667 0.1667 0.1667 0 1667 0 1001 0 0667 0.1667
                    Level of Conflict 3 Media 4
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INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
             or the Importance of Controlling EACH region within its own Media
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100
||GEF||0.0200||0.0200||0.6140||0.0100||0.0140||0.0200||0.0040||0.0100||c.0040||0.0110
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MOEF 0.0152 0.0152 0.0137 0.0041 0.0107 0.0074 0.0152 0.0122 0.0107 0.0074
[OEF 0.0137
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DEF 0.0213 0 0213 0.0213 0.0213 0.0129 0.0095 0.0213
bia
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[OBF 0 0752 0.0301 0 0150 0 00/5
ortance of controlling ANY Region
hin its Media as compared to the Importance
controlling ANY Region of any other Media
dia 1
ion 1 2 3 4 5 6 7 8 9 10
DEF 0.0087 0.0087 0.0061 0.0043 0.0061 0.0087 0.0017 0.0043 0.0017 0.0002
ia 2
ion 1 2 3 4 5 6 7 8 9 10
ia 11
ion
DEF 0.0033 0.0033 0.0030 0.0013 0.0023 0.0017 0.0033 0.0026 0.0023 0.0017
DEF 0.0030
ia 3
ion 1 2 3 4 5 6 7
DEF 0.0056 0.0056 0.0056 0.0033 0.0022 0.0056
DEF 0.0054 0.0054 0.0054 0.0054 0.0033 0.0022 0.0054
ia 4
ion 1 2 3 4
OEF 0 0045 0.0026 0.0013 0.0007
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## FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	FIRIE ELEMENT	er tip ktet	MODERNI TIET
RAN-ING			VALUE	VALUE
• -				· - · <del>-</del>
1		CAPAISE IATTLE OFFIE		10.00
<del>-</del>	1	ASE INTERDIBLIN		7 84
<u> </u>	. 3	ARMY GRILLIE	0.000	
۵	1.6	ÁTTÁGÁ ÉDTÉ EURRA JERGINGATAR ME	0.073	
<b>E</b> *,	1 4		0.000	
<u> </u>	<u>&amp;</u>	RAFIL 1EFLOY	0.008	
7	1 =	THEATER NUCLEAR WESTON		
8	14	ASW (LAND DARED)	0.043	
9	Ć.	C+ E	- 1 <b>1.4</b> €	
10	22	AIR EUFEFIURTTY (LANCE FA	4810 O 036	2 7:1
11	15	ASV (SEA BABEL)	0.012	1 311
12	12 2:	AIR BUFERIORITY (BHIF DA		2 1/2
17	2:	AIR DEFENDE (EMIR ISIEI)		1 774
14	10	STRATEGIC BOMNER	0.025	1 7 c 7
1 =	*	SHIE EASED WEARONGAIR C		1 1 -
1 &	1 3	SPECIAL OPERATIONS	Q Q 22	
17	29	ASAT(SPACE PASED)	C 017	₹ <u>"</u> ⊑
1 🗄	13	MINE WASSALE	€ 41±	,
1 হ	2	AMPHIBIOUS ASSAULT	0.017	0.713
20	28	ASAT(LAND BASED)	0.007	
21	20	AIR DEFENSE (LAND BASED)	<ul><li>φ φφ4</li></ul>	O 1234
22	¢.	SPOE-PARED WEARCHIED C	NTHLM OIL	(
23	30	SPCE BASED WEAPON (SEA C		
24	<u> 27</u>	ABM (SRACE BASED)	$\phi = \phi \otimes \phi$	
ŽĘ.	Žė	APMILANI BAREDO	ija (ja a.j.	
24	24	INTERCEPTUR AIRCRAFT	ပုံ ပုံပုပုံ	
27	11	응드판여	0.000	
25	_	ICET	0.00	
	/ E	CIVIL IEFENSE	000	
20 30	4	CEW	ō ooo	
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## COMMODITY IMPOSTANCE (LOC 3)

#### COBALT

AIR INTERBISTION	5, 44
ARMY GROUND	4, 19
CAS	1.62
ICEM	0, 00
STRATEGIC BOMDER	1.76
SLBM	<b>Q</b> , <b>Q</b> Q
ASW(SEA BASED)	1, 27
CARRIER BATTLE GROUP	10,00
SURFACE COMBATANTS	4, 29
AIR SUPERIORITY(LAND BASED)	2, 73
AIR SUPERIORITY(SHIP BASED)	2, 16
INTERCEPTOR AIRCRAFT	0, 00
ABAT (LAND BASED)	Q. 52
	~~~~
	33 99

- 1	- 1	r.

Al- INTERDICTION	5 32
ARMY GROUNT	1 75
CAE	1 77
E PHIEGIT IIMILA	1 - 6
HOWFLAND BRUELL	3: 1 -
A:W(SEA BASEI)	1 11
ATTACK SUBS	5 23
CARRIER BATTLE OF UP	1 60
MINE WARFARE	1 2
SURFACE COMBADANCE	4 19
AIR SUPERIORITY(LAND BASED)	2 73
AIR EMPERIORITY(1-19 I-1ED)	2. 1 m
INTERCEPTOR AIRCRAFT	0 00
AIT LAND BARRE	
	$A \supset -1$

NICHEL

AIR INTERDICTION	5. 33
ARM / GROUND	A 56
CAS	1 60
STRATEGIC BC DEn.	1. 76
ASW(SEA BASELS	1.71
ARTALE SULE	5,23
CARRIER BATTLE GRUUP	10.00
MINE WARFARE	0.92
SURFACE COMBATANTS	4, 29
AIR SUMEFICHITY (LAND BASED)	2,73
AIR SUFERIORITY (SHIP BASED)	2, 16
INTERCEPTOR AIRCRAFT	Q_{i}, QQ_{i}
	40.30

FLUORSPAR ACID

AIR INTERBILTION	& 7°
AMPHIDIDIE ASSAULT	0.71
ARMY GROUND	3, 42
CAS	1 [10]
ICEM	O 44
STRATEGIC BOMBER	1.75
SLEM	$\mathbf{O}_{i} \in \mathbb{C}$
ABW(LAND BASED)	3.09
ASW(SEA BASED)	1.62
CARRIER BATTLE GROUP	10. OQ
SURFACE COMBATANTS	4 27
AIR SUPERIORITY(LAND PASED)	2.73
AIR SUPERIORITY(BAIR DASEL)	I. 14
INTERCEPTOR AIRCRAFT	0, 00
ALONEAND BASED)	Ø €.
	- 38 LO

FYRETHRUM

ARMY GROUND	2.42
CIVIL DEFENSE	O OC
ASM(SEA BASED)	0.14
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4 20
	16 연고

COMMODITY NORMALIZED IMPURTANCE

TIN	10,00	(40.47)
NICHEL	후, 원심	(40 30)
FLUORSPAR ACID	9 51	(38, 50)
COPALT	8, 40	(ଓଓ, ୧୨)
FYRETHRUM	4.18	(16.92)

0.05 ALT																																			
	243																																		
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ART. ACRET					_						•							3	<u>;</u>	37	01														
RADIO RLAY	615 649	INTE	.RL:	I.T	147	*												3	- -) 7 = -	· -	:													
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SH-60B																																			
	ASW																		7																
ATT. SUBS																		24	,	QΞ	ij.	7													
FRIGATES																		_	<u>C</u>		-														
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M-43 M-60	ARMY																		- 1 - 1																
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M-551																			 ;																
7-901	ARMY	GE()	1111																· .																
M-2/M-3																			<u>-</u>																
M-113	ARMY																		4																
MURB Towed ART,	ARMY	_		_															<u>.</u>																
SELF-PROP																			- ' - '																
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GLCMB	ARMIT	GE.	H.H.C															2	7.	93	• • ,)													
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A-10	CAS	<u>67 4025</u>
0.00 84	0.4.8	토토 위13년
F-4	AIR INTERDICTION	원김 토건적요
	CAE	6 7413
F-15	AIR INTERDICTION	원함 4 14호
	048	©* 4+10
AFT. ACEST	0+.9	3, 3701
RADIO RLAY		3 07 88
	CAS	2, 5276
F-111	AIR INTERLITION	123 1503
A-6	AIR INTERDICTION	41 5472
F-15	AIR INTERDICTION	54 7835
A-7	AIR INTERDICTION	49, 2601
F-14	AIR INTERDICTION	43 1814
F-18	AIR INTERDICTION	76 9639
\$H3	A8W/88A BA8E1	5 2014
Sn-2	ASW(SEA BASED)	13 0036
5H-4강동	ASU/SEA BASHD)	20 2277
5-3	ABW BEA DABED)	34 6761
	ASK SEA MASED)	14, 4494
	ARW(SEA FASED)	14 44-4
	ASW(SEA BASED)	8. 6690
M-45	ASMY GROUND	3 9112
M-60	ARIA GROONS	6 285a
M-1	AFMY GROUND	34 9212
M-551	AFM - GROUND	0.0838
n=301 n=301	AFMY GROUND	6. 2858
M-2/M-3	ARMS GROUND	6. 2008 6. 2008
m=27m=3 m=113	ASMY GSGUTO	0. <u>4</u> 934 0. <u>4</u> 934
M_RE	- ARMY GROUND	0.6:04 9.4187
	ARMY GROUND	4.1905
	ARMY GROUND	5 5874
	- ARMY GROOMS - ARMY GROOMS	그 기록 14 14 건강선의
GLEMS	ARMY GROUND	24, 4449
		교육, 육육육기 등등 연구40
	- ARMY GROUND - ARMY GROUND	
	ARMY GROUND	9. 2095 0. 2095
MULLS LINUM	HERE GERMAN	0. 20%0

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10, 0000 8, 5242 8, 5473 6, 2500 5, 4732	4, 8651 4, 5871 4, 6871 4, 0000 8, 3750 8, 3750 8, 3750 8, 3750	1, 9830 1, 6425 1, 1910 1, 1732 1, 1732 1, 0559 0, 7656	0,509 0,5104 0,5104 0,5104 0,4103 0,4103 0,4103	la militaria
7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	COBRA INFANTRY F-15 A-7 F-14 A-6 M-1	7. 2.008 4.6.4.1.N.G 1.0.4.1.E.S 1. 0.08 7.0.8.3		MUMIENS 100EU 687 M-48 6481 - PUETT 11-117 21-18 - UNCH

NICHEL			
A-10	CAB	<u>/ </u>	4025
CCETA	CAE		
F-4	FIR INTERIGITION	- 3.	23.01
	CAB	5,	0511
F-15	AIF INTERPICTION	<u> 4</u> E	417.5
	€ 6.3	7	
ART. ACRET		2	2468
RADIO RLAY	AIR INTERDICTION		071E
	0.46	2	5276
F-111	AIR INTERDICTION	123	
A-6	AIR INTERDICTION		9451
F-15	AIR INTERDICTION		7335
A-7	AIR INTERPICTION		2601
F-14	AIR INSERDICTION		1814
F-18	AIR INTERDICTION		5695
E1,	ABWABEL BABED)		7371
8H-2	ASW(SEA BASED)		3381
SH-AQI	AEW(BEA DABEE)	24	9703
5-3	ABW(BEA BABED)	34	6761
ATT, SUBS	ASW(SEA BASED)		347.
FRIGATES	ASW(BEA BASED)		0071
	ASW(SEA BASED)		6043
M-49	ARKI GEOUND	39.	1118
M+60	ARMY GROWND	62.	8582
N°−1	AFRY GROUND	<u>6</u> .0	8425
M-501	ARY SROUND		<u>김</u> 희금 스
M-901	ARMY GROUND	44.	0008
M-2/M-3	AFMS GROUND	50.	28/3
M-113	AFM: GROUND	4.	8690
NURS	ABMA DECIME	18	85 5
	ARMY GEOUND	33	5144
SETE-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E	ARMY GROUND	4 C;	6512
PEREHING	ARM: GFOCKI	16.	7622
GLOME	ARMY GROUND		9527
INFEMTER	AF & GROWND		9212
	AFNY CROUNT		6669
ROLES LNOH	ARMY GROUND		2095



4,0834 9,60934 0,66488 0,66488 0,1759 0,0000 0,1759 1,7014 1,7014 1,5318 1,673 4105 2500 6713 4732 1042 1, 2671 1, 1910 0, 57.32 0202 4. 4444 11 11 51 NOGMALIZED VALUES F-111 RAPITO RLAY M-113 ₹ 2 PRI NEFT A-6 INFANTRY S-3 TOWED ART. SELF-PROP. M-901 ATT, SUES DISTROYERS FRIGATES GLCMS FERENTING MURTERS M-2/M-3 SH-GOB COERA 5.H-2 M-40 6-H3 F-16 F-18 A-10 09-W F-15 F-14 MERG A-7 F-4 J-M

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FLUCKERAR ACID
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F-4
              AIR INTERDICTION
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                                                            46, 8075
              CA.E
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ART. ACRET CAS
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RADIO RLAY AIR INTERDICTION
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5276
              CAS
                                                           15명 연안기원
              AIR INTERDICTION
F-111 .
              AIR INTERDICTION
                                                            46, 1814
4-6
                                                            68 4168
F-15
              AIR INTERDICTION
                                                            61 5751
              AIR INTERLIGTION
A-7
                                                            51 3126
              AIR INTERDICTION
F-14
                                                               5210
              AIR INTERDICTION
F-13
                                                             6, 9302
              ASW(SEA BASED)
SH-3
                                                               3381
SH-7
              ASW(SEA BASED)
              ASW(SEA BASED)
                                                            3.3
                                                               711
£ +, - 6.0 €
                                                            43, 3452
\mathfrak{S} = \mathfrak{S}
              ASW(SEA BASED)
                                                            28, 8968
ATT. SUBB
              ASW(SEA BASED)
                                                            20, 2277
FRIGATES
              ASW(SEA BASED)
DSTROYERS
                                                            12, 1847
              ASW(SEA BASED)
                                                            11, 7335
14-48
              ARMY GROUND
                                                            18 8575
              ARMY GROUND
M = \frac{1}{2} \cdot (1)
                                                            20 9527
              AHIMY GROUND
M-1
                                                             0.2095
M-551
              ARMY GROUND
                                                            50 2866
              ARMY GEQUIND
M-901
                                                            50, 2866
              ARMY GROUND
M-2/M-3
                                                             5, 5874
              ARMY GROUND
m-113
                                                            15 7146
MLRB
              ARMY GROUND
                                                            20 9527
              ARMY GROUND
TOWED ART
                                                            27, 9370
SELF-PROP
              ARMY GROUND
                                                            14 6669
              ARMY GROUND
PERCHING
                                                               4449
              ARMY GROUND
                                                            24
GLCMS
                                                            55,8740
              ARITY GROUND
INFANTRY
                                                            24, 4449
              ARMY GROUND
MORTERS
                                                              0, 2095
ROLES LNCH ARMY GROUND
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3611
3611
3170
2230
1263
0208
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87.2
8148
5800
5000
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INFANTRY

-14

F-15 A-7 \mathfrak{G}

M-2/M-3 M-901 A-6 COBRA

NORMALIZED VALUES

F-111

F-16 F-4

F--13 A-10 00770

1-1 07

RADIO

M-4:

HUMIT VETUE

7884

DOTROYERS

PERSHING

M_R0

SUES

ATT

3H-60B

SELF-PROP

MURTERS

ART

TOWED

<u>1</u>−1

SMOTE

FRIGATES

M-60 6H-2

2

FYRETHRUM

ATT SUFE	AB 40SEA BABED)	14.4414
M-48	ARMY GROUND	27 . 3783
M-60	ARMY GROUND	44 . 0005
M-113	ARMY GROWNI	4 6890
TOWED ART.	ARMY GEOURE	29 3338
SELF-PROP.	ARMY GROUND	ଓଡ଼ 1118
INFANTRY	ARMY GROUND	69. 8 4 25
	ARMY GRIENTE	정취 로모오일

NORMALIZED VALUES

INFAUTRY	1 0,0000
M-60	6 , 3000
SELFARROR	5 6000
MORTERS	4, \$000
TOWED ART.	4 2000
M-48	3 PIQO
ATT, SUBB	2, 0697
N=113	0, 7000

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ALL COMMODITIES
                                                    2, 8145
A-10
            CAS
                                                    1. - 4.
COERA
            CAS
F-4
            AIF
                INTERDICTION
                                                    3. 940部
            CAE
                                                    0. 2696
F-16
            AIR
                2. 2077
            643
                                                    1,5515
ART. ACRET CAS
                                                    0.1236
RADIO REAY AIR INTERDICTION
                                                    0.1232
                                                    0.1011
            CAS
F-111
            AIR INTERPICTION
                                                    5, 2334
            AIR INTERDICTION
A-6
                                                    1.6163
F-15
            AIR INTERDICTION
                                                    2.3262
                                                    2. 0934
A-7
            AIR INTERDICTION
F-14
            AIR INTERDISTION
                                                    1.8473
F-18
            AIR INTERDICTION
                                                    3 0788
            ASK(SEA EASED)
                                                    0 2514
54-3
            ABW(SEA BASED)
                                                    0. 6295
SH-2
SH-60B
            ASW(SEA BASED)
                                                    1. 0451
            ASW(SEA BASED)
                                                    1.4737
8-3
                                                    1. 2522
ATT.
    SUES
            ASW(SEA BASED)
FRIGATES
            ASW(SEA BASED)
                                                    0.7513
                                                    0.4508
DETROYERS
            ASW(SEA BASED)
M-49
            ARMY GROUND
                                                    1, 1734
M-60
            ARMY GROUND
                                                    1.8957
1-1-1
            ARMY GROUND
                                                    1.8857
M-551
            ARM: GROUND
                                                    O. 0119
M-901
            ARMY GROUND
                                                    1,5086
M-2/M-3
                                                    1 5055
            ARMY GROUND
                                                    0. 2095
M-113
            ARMY GROUND
            ARMY GROUND
网络草属
                                                    0. 6286
TOWED ART.
            ARMY GROUND
                                                    1.1314
SELF-FROM
            ARMY GROUND
                                                    1.5096
PERSHING
            ARMY GROUND
                                                    0.6286
                                                    0. 9778
GLCMS
            ARMY GROUND
                                                    2 2350
INFANTRY
            ARMY GROUND
MORITERS
            ARMY GROUND
                                                    1, 1245
ROLES LNOH ARMY GROUND
                                                    0.0210
```

10, 0000		8,0445	J. 00074	5, 4732	4 4444	4, 2702	4, 0000	3, 7204	3. 6 000	3, 6030	9, 5294	3, 0882	2, 8824	2,8824	2,000%	2, 8158	2, 3925	2, 2418	$2.161 \odot$	2, 1484	1.9969	1.8682	1. 4050	1.2010	20T	1, 2008	86.1	0,4803	0,4200	0,4003	0, 2361	0,0400	1770 O
NORMALIZED VALUES F-111	- 1	F-4	F-18	A-10		Z		٠	- 1	- 1	F-14	- 1	M-2/M-3	_	SELF-PROP.	ტ ქ ტ	ATT, SUBS	M-40	TOWED ART.	MORTERS	SH-60B	OLCMO	FRIGATES	PERMITTE	MLRS	SH-2	DOTROYERS		RADIO RLAY	M-113	ART, ACRET	FOLES LNOH	1

CRITICALITY OF SHORTFALL ALL FERS (LGC 2)

}		ETCLE.					NDFM1281
	GOAL	FILE	FALL	TRANS-	CMODITY	CRITIC-	FE SHETEL N
COMMODITY	(UNITE)	(UNITE)	(\mathbb{T}_{k})	LATED	IMPORT.	ALITY	CRITILL (T.)
FA_T	문인 4	43 %	-4: 7	4 📜 💆	5, 4	3379 9	- <u>:</u>
î û	42 0	1500 €	353 B	$\circ \circ$	10.0	10.0	Ç. Çı
CHEL	200 C	32 2	—∄ <i>3.</i> /9	437.7	10.0	4358.1	10.0
UORSPAR ACID	1400 O	895 0	-34.1	·말맞티 호	한 5	3708.3	£ 5
RETHRUM	500 0	C . (-100. c	453.8	4 🚊	1897. 6	

COMPOSITE IMPOSTANCE (L01 3)

COPALT

	Chelle le .	• ~~			
IRCE	AMUUNT SUPPLIED	% OF TETAL	OIMPOLITE IMPORTANCE	1/61	2. 1 (01)
LAND	1350.	7. 71	1. 72	0.580	4 477
10000	45 0.	2.57	2, 05	0. 487	1 251
SWANNA	250.	1.43	1. 74	0.547	0 8:3
TH AFRICA	150	0.84	2, 31	0 431	Ō. 20 î
RE	9000.	51.43	1. 74	6 549	29, 212
EIA	3500	20.00	1 76	o ଲିଲ୍ଲ	11.7:-
LIPPINES	50	0. 29	ō, £2	1. 211	0.341
TRALIA	4 00.	2, 29	0.82	1. 216	2 77.2
L CALEDONIA	25 0.	1 43	0.91	1. 214	$\frac{-1}{1}, \frac{1}{7}$
IADA	1100.	6.29	2.61	0.333	2 408
	1000.	5. 71	2 31	G. 432	2 471

COMPOSITE IMPRETANCE

TOTAL: 17500. 100 00

TIN

(LOC 3)

•	AMOUNT	% OF	COMPOSITE		
JRCE	SUPPLIED	TOTAL	IMPORTANCE	1/01	%(1/01)
TRALIA	100.	0.15	0, 82	1. 216	0. 180
	16100.	23, 82	2, 31	0.432	10, 299
HILAND	5900.	8. 73	0. 82	1. 216	10.611
IONESIA	5900.	8, 58	0.82	1, 216	10. 431
	100.	0.15	1. 76	0. 569	0. 084
IVIA	10300.	15, 24	0 . 90	1.117	17. 014
ZIL	2400.	3, 55	0. 90	1. 117	3. 964
,	3000.	4. 44	2 33	0. 429	1.905
AYSIA	2 3900.	35, 36	0, 82	1. 216	42, 983

TOTAL: 67600. 100.00

COMPOSITE IMPORTANCE (ECC 8)

NICHEL

SOURCE SEXULAND SECOTH AFRICA MERILIPPINES MAYETRALIA

U D GREGGE NETHERLANDS

GYUGOBLAVIA Ugor 151 REPUB 160-TAMALA INDORESIA

NGC RCE MBC TH AFRICA

> EAST AFRICA THAILAND ME ICO

i នៃប្រ

44.5	1917 1. 54 54	COMPESSIVE	•	
SUFF	LIED FOTAL	IMPLIETABLE	1/CI	3(1,1)
10	00.	1 72	O. 580	₹. <u>111</u>
5 0.	00 1 64	2 31	0.492	CA - TICA
5.0	DR 1 64	0 81	1. 216	1 1 -
250	90. 8, 21 8	0 82	1, 116	The Bridge
15(50)	38. 49.21	2.61	6.383	19 977
200 0	M 28.91	2 91	0.491	12 511
ć.	lv. 0.15	1. 7£	0.510	€ 111
20	00. 0.07	1.76	O EAD	Ç (- *
1.	$\phi_{1}=-Q/Q_{2}$	1 74	O 트 I	April 1980
<u>~</u> ,	00. 0. 1 5	1.76	0.568	○ < : 4
51.	00. 1.64	0.8.	1.161	<u>.</u>
11.40	00 4 , 92	1.38	0.727	<u> </u>
40	90. 1.21	1, 38	0. 727	보원일
50.	00. 1. 44	0.82	1.214	

T0741: 304400 100 00

COMPLETE IMPURTANCE (LOC 3)

FLUGRBPAR ACID

	AMOUNT SUPFLIED 150 70. 45 100. 25. 15.	% OF TOTAL 22.38 8.70 8.07 12.42 3.11 1.86	COMPOSITE IMPOSTANCE 1.31 2.31 1.76 1.76 1.76 0.82	1/01 0.432 0.432 0.549 0.569 0.569 1.214	5.73781 1 623 3,760 4 597 7,013 1,788 2,285
	250) 	43 48	2.31	0, 492	19 991
TOTAL:	805.	100,00			

TAL: 805. 100.00

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

.*	AMOUNT	% OF	COMPOSITE		
SO/RCE	SUPPLIED	TOTAL	IMPORTANCE	1/01	%(1/CI)
BOUTH AFRICA	2000.	1.01	2, 31	0. 432	0.433
BUCTRALIA	1500.	0.76	0, 82	1, 216	0, 923
JHC	11000.	5 57	1.76	0. 569	3 171
ENYA	8 0000.	40, 51	1. 76	0.569	23 043
WANDA	25000.	12.66	1.76	0.549	7 2:7
FASZANIA	78000.	39, 49	1. 76	0. 569	22 407
_•					

TOTAL: 197500. 100.00

SCURCE IMPURTANCE (LOC S)

501515		FERSHOSTRALL ERITICALITY		
PINCAND MOADCOO POTSWANNA BOUTH AFRICA PAIRE IAMBIA PHILIPPINES AUSTRALIA NEX CALEDONIA CANADA US	4 477 1 252 0 813 0 871 25 082 11 838 0 847 2 779 1 737 2 409 2 471	7, 74 7, 76 7, 76 7, 76 7, 76 7, 76 7, 76 7, 76 7, 76 7, 76	34 72 9, 71 6, 31 2, 87 217 10 88, 32 2, 69 21 55 13, 47 18, 47 19, 13	15. 27 4. 27 2. 78 1. 27 100. 00 38. 89 1. 19 9. 49 8. 30 8. 44
AUSTHALIA U S THAILAND INDONESIA UB BULIVIA INACIL FEI MALAYSIA	0, 180 10, 299 10, 611 10, 431 0, 084 17, 014 8, 964 1, 901 42, 981	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0
FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S OREECE NETHERLANDS FRG YUGOSLAVIA USER DOM. REPUB. GUATAMALA INDONESIA	0 191 0 710 1 997 9 985 18 877 12 501 0 112 0 037 0 019 0 094 1 905 3 582 0 955 1 997	10 00 10 00	1, 91 7, 10 19, 97 99, 85 188, 77 125, 01 1, 12 0, 37 0, 19 0, 94 19, 05 35, 82 9, 55 19, 97	
UORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	9, 669 3, 760 4, 597 7, 073 1, 768 2, 265 18, 801	8, 51 8, 51 8, 51 8, 51 8, 51 8, 51	82, 28 32, 00 39, 12 60, 19 15, 05 19, 28 159, 98	14, 09 17, 23 26, 50 6, 63 8, 49
YRETHRUM SOUTH AFRICA - AUSTRALIA - UK KENYA RWANDA TANZANIA	0, 4 38 0, 923 3, 171 23, 063 7, 207 22, 4 87	4, 35 4, 35 4, 35 4, 35 4, 35 4, 35	1, 91 4, 02 13, 81 100, 42 31, 38 97, 91	

BOURTE IMPORTANCE RANKED BY SOURCE (1001-30)

	SOURCE ZAIRE	COMMIDITY COLALT	VALUE 100.00
	CANADA	NICHEL .	93. 12
· 3	MEXICO	FLUCREPAR ALID	70 45
1 4	US	NICHEL	
	KENYA	FYRETHEUM	44, 22
<u>.</u>	ALLE TEAL TA	NICHEL	43 77
- - -	TANIANIA	PYSETHSUM	43.11
•		COPALT	3 E. S. S.
	SOUTH AFRICA	FLUORERAR ACII	38.25
10	SPAIN	FLUDRSPAR ALID	26, 50
1 .	ITALY	FLUOREFAR ATTO	4 ms 4 ms
	DOM. REPUB.	NICHEL	15, 77
	FINLAND	COPALT	15. 29
14	បទ	FLUCESPAR ACID	14, 01
15	RWANDA	FYRETHRUM	19 82
16	AUSTRALIA	COBALT	F. 42
17	INDONESIA	NICKEL	8. 79
1 8	PHILIPPINES	NICHEL	8.79
	THAILAND	FLUORSPAR ACID	용. 4 의
20	បទ	CORALT	8 44
2!	USSE	NICHEL	용 공학
72.1	CANADA	COBALT	8 22
725	EAST AFRICA	FLUORIFAR ACID	6. 63
24	UE:	PYRETHRUM	6 . 08
	NEM CAFELONIA	CODALT	5 , 93
	MORGOOO	COBALT	4, 27
	GUATAMALA	NICKEL	4. 21
	SOUTH AFRICA	NICHEL	3, 13
725		COBALT	2, 78
30	AUSTRALIA	PYRETHRUM	1. 77
31	SOUTH AFRICA	COBALT	1. 27
	PHILIPPINES	COBALT	1.49
33.		FYRETHRUM	0. 84
34	FINLAND	NICKEL	Q. 84
ے۔	GREECE	NICHEL	Q. 4 9
36	YUGOSLAVIA	NICKEL	0 41
37	NETHERLANDS	NICKEL	0.16
38	FRG	NICKEL	O. 08
- 35	MALAYSIA	TIN	0. 00
40	· · · · ·	TIN	0.00
41	BRAZIL	TIN	0. 00
42		TIN	0. 00
.43	UK	TIN	0. 00
44	INDONESIA	TIN	0. 00
· 4= .		TIN	0. 00
■ 4 <i>6</i> .	US	TIN	0. 00
. 47	AUSTRALIA	TIN	Q. QQ

SCENARIO 18

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                                                Level of Conflict 3 Media 1
     From on
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     W. . . . 5 7.7
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      I/COEF 0 1543 0 1543 0 1094 0 0781 0 1094 0 1543 0 0313 0 0781 0 0313 0 0939
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Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangara Mangar
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                                     INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
                                     or the Importance of Cortrollard EACH region within its own Mexic
     Media 1
     F 1107
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     Media
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      IXCOSEF 0.0152 0.0152 0.0137 0.0061 0.0107 0.0076 0.0152 0.0122 0.0107 0.0076
     1.00EF 0 0137
     Matia 3
     Region
      IARGER 0.0213 0 0213 0 0213 0 0213 0 0128 0.0085 0.0213
    Media 4
     Region
   >1/COEF 0 0752 0.0301 0.0150 0.0075
     Importance of controlling ANY Region
     within its Media as compared to the Importance
      of controlling ANY Region of any other Media
     Modia 1
     Region
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     I/COEF 0.0087 0.0037 0.0061 0.0043 0.0061 0.0037 0.0017 0.0043 0.0017 0.0052
     Modia 2
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     Media 11
     Rigion
     INDOEF 0.0033 0.0033 0.0030 0.0013 0.0023 0.0017 0.0033 0.0026 0.0023 0.0028
     I/COEF 0.0030
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     Region
     1/UOEF 0.0056 0.0056 0.0056 0.0056 0.0033 0.0022 0.0056
     ·Mędia
     Region
     I/DDEF 0.0045 0.0026 0.0013 0.0007
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FORCE ELEMENT IMPORTANCE (101 3)

	ELEMENT	FORCE ELEMENT C	ALCULATED	NURMALIZED
RANEING	NUNLER	NAME	VALUE	VALUE
1	17	SASSIBA INTALE GARGE	0.135	$1 \oplus - \oplus \cdots$
-		RIR INCERTIONS	0.110	. 7 Ems
3	3	ARMY GROUND .	0.095	6 847
4		ATTACK SUBS	0.073	5. 227
5	1 🕾	SUFFACE COMMETANTS	CHOĆO	4 291
Ŀ		RAPID DEPLOY	0.053	
7		THEATER NUTLEAR WEARD	Q Q54	
8	14	ASW(LAND BASED)	Q. 043	
•	€	CAS	0.040	
10		AIR SUPERIORITY (LAND BAS		
11		ASW(SEA BAREIN)	o off	
1 _		HATEL BUMBERINGTTY (SHIP) BAS		
13	21	AIR DEFENSE(SHIP BASED)		
14		STRATECIC POMIES	0.025	
15	25	SPCE BASED WEAPON(AIR ON		
16	13	SPECIAL OPERATIONS		
17			0.013	
19		MINE WARFARE	0.013	
1 🕾	2	AMEHILIQUE ASSAULT	C 010	0.713
20		ABAT(LAND EABED)	Q Q07	
21	20	AIR DEFENSE (LAND BASED)	Q QQ4	$\hat{Q} = \sum_{i \in \mathcal{I}_i} q_i =$
	Ŧ	SPOEHRAPED WEAPONILND ON		
23		SPOE BASED WEAPON(SEA ON		
24			$Q_{i},Q_{i}Q_{i}$	
25		APM(LAND BABED)	Q QQQ	O 000
26	24	INTERCENTOR AIRCRAFT	0,000	$\mathbb{Q} \setminus \mathbb{C} \supseteq \mathbb{C}$
27	11	SLBM	0.000	• • • •
⊉ ₽	7		0.000	O (001)
27	5	CIVIL DEFENSE	Q QQQ	*
30	4	CEW	0,000	0 000

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	<u> </u>
ARMY GROUND .	4 19
CAS	1, 62
ICEM	Q, QQ
STRATEGIC BOMBER	1.76
SLBM	0.00
ASW(SEA BASED)	1, 27
CARRIER BATTLE GROUP	10,00
SURFACE COMBATANTS	4, 29
AIR SUPERIORITY(LAND BASED)	2, 73
AIR SUPERIORITY (SHIP BASED)	2 16
INTERCEPTOR AIRCRAFT	0, 00
ASAT(LAND BASED)	Q. 52
	~. ~

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AIR INTERLICTION	
ARMY GROUND	1.78
CAS	1 77
STRATÉGIC BOMISE	1 - 5
ABW(LAND BASEL)	3 . 23
ASW(SEA BASED)	1 11
ATTACK SUBS	5.23
CARRIER BATTLE GROVE	$1 \oplus - \oplus \vee$
MINE WARFAFE	C. S
SURFACE COMIATA (TS	4 19
AIR SUPERIORITY(LANI BASED)	2 73
AIR SUPERIORITY SHIF IMSELY	2 16
INTERCEPTOR AIRCRAFT	O = O(t)
AIT (LAND PASTI)	(j) još
	40 27

NICHEL

AIR INTERPITATION		5 3:
ARMY GROUND		4 54
CAS		1
STRATEGIC BOMBER		1 74
ASW(SEA BASED)		1 /1
ATTACK SUBS		5. 2E
CARRIER PATTLE GROU	₽	10.00
MINE WARFARE		o ≘ <u>s</u>
SURFACE COMBATANTS		4. 🗥
AIR SUPER GAITY/LAN	T PASED)	2.73
AIR SUPERIORITY(BHI	F BASED)	2 15
INTERCEPTOR AIRCRAF	T	0.00

40, 30

FLUGSSPAR ACID

AIR INTERDICTION	<u>4</u> 7 ⋅
AMBHIDUS ASSAULT	0.71
ARMY GROUND	3 42
CAS	1 50
ITEM:	$Q \in \mathbb{N}$
STRATEGIC BOMBER	1. 76
SLEM	Q 00
ABW(LAND BABEI)	F 07
ABW(SEA BASEL)	1. 6 2
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4. 2 ^(a)
AIR SUPERIORITY: LANE EASEI:	2 73
AIR SUPERIORITY(SHIP BASED)	2, 16
INTERCEPTOR AIRCRAFT	0.000
ABM (LAND BASEI)	1 (1)
	-, 11 1

PYRETHRUM:

ARMY GROUND	2,49
CIVIL DEFENSE	0, 60
ASW(SEA BASEI)	O. 1-4
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4
	16. 92

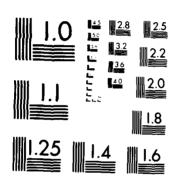
COMMODITY NORMALIZED IMPORTANCE

TIN	10.00	(40.47)
NICKEL	9. 96	(40, 30)
FLUGRSPAR ACID	원, 51	(38, 50)
COPALT	8 40	(33,99)
PYRETHRUM	4. 1 E	(16, 92)

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COBALT
                                                       ∆179
4.11.
5202
            049
4-10
core -
            ÇZE
                                                     4. ...
            AIR INTERDICTION
F-4
            645
                                                      Ŀ
                                                       4105
            AIR INTERLIGRICAL
                                                     _ =
F-14
                                                     37 44-0
            CHE
                                                      3, 3701
AFT ACRET CAS
                                                      3 0788
RADIO RLAY AIR INTERDICTION
                                                      2 E276
            CAE
                                                    123 1503
            AIR INTERDICTION
F-111
                                                     38 9451
            AIR INTERPLETION
4-6
                                                     54 7375
            AIR INTERDICTION
F-15
                                                        \mathbb{Z}_{2^{m+1}}
            AIR. INTERLICTION
                                                     4 -
                                                     41 0501
            AIR INTERDICTION
                                                     68 416 P
            AIR INTERFICTION
F-18
                                                      6 06:3
            ABW (BEA BABED)
SH-3
                                                     15 1706
5 H-2
            ASW(SEA PASED)
                                                     13 59H.
            ASK(SEA BASED)
SH-60E
                                                     34 6761
⊊.− ∑
            ASWISEA BASED)
                                                     24 0807
ATT, SUPB ASW(SEA BASED)
                                                     14 4484
            ASW(SEA BASED)
FRIGATES
            ASKISEA BASED)
                                                      8 6630
DETROYERS
                                                     35 2004
            ARMY DROUND
M-4≘
                                                     56 5714
            ARMY BRINGE
M-40
                                                     62. 85B2
            ARMY GROUND
[-]
            ARMY GROUND
                                                      0.2095
M-551
                                                     50.2960
            ARMY GROUND
M-901
                                                     44 0000
            ARMY GROUND
M-2 (M-3
                                                      4 855
            ARMY GROUND
M-113
                                                     18, 8575
MLEE
            ARMY GROUND
                                                     -5
                                                        1433
TOWER AFT
            ARMY GROUND
                                                     33 5144
BELF-FROM.
            ARMY GROUNT
                                                     16, 7622
PERBHING
            ARMY GROUND
                                                        $ 37 ()
                                                     27
            ARMY GROUND
GLEME
                                                      6. 9840
INFANTEY
             ARMY GROUND
                                                     34 2228
           ARMY GROUND
MORTERS
                                                      1 4667
ROLES LNOH ARMY GROUND
```

8033 8118 7720 7220 2720 2720 9554 9518 3611 703 700 700 4008 0834 0000 6488 5723 3333 5962 5473 5556 4732 1042 5938 4444 ರೆಯಯೆಯೆಯೆಯಾಗಿಕ ಕಿಕ್ಷಣೆಪ್ಪಪ್ಪವಾಗಿವೆ ವಿವರ್ಧದ್ಯ NORMALIZED VALUES F-111 FILAY DE RET TOWED ART. AIT. SUBS SH-60B TETPUYERS TELF-PROP CNIHOUS FRIGATES NEANTRY COBRA M-2/M-3 F-14 A-6 M-48 9-3 MORTERS (Hilly) SMUTE CH IN TOGHM F-16 F-4 F-18 A-10 M-1 M-60 51-4 L U A-7

SIMULATION OF CRITICAL MATERIALS RESOURCE STRATEGIES
VOLUME 2 APPENDIX D. (U) TITAN SYSTEMS INC LA JOLLA CA
D SOMERFELD 13 SEP 83 TITAN-DSI-105800-07-83-5F-2-D
EMH-C-0906 F/G 15/5 2/2 MD-R150 260 NL UNCLASSIFIED



MICROCOPY RESOLUTION TEST CHART
NATIONAL HUREAU OF STANDARDS 1465 A

MIT		
A-10	CAS	A TO A SOCIO
COBRA	CAS	67. 4 328
F-4	AIR INTERDICTION	59 913 <u>6</u>
	CAS	98. 5 202 7.4
F-16	AIR INTERDICTION	6 74 8
	CAS .	68 4169 87 4440
ART. ACRET	T CAS	31 44 50 3 3701
RADIO RLA	/ AIR INTERPICTION	3 0788 3 0788
	CAS	2 5 276
F-111	AIR INTERDICTION	
A-6	AIR INTERDICTION	123, 1503
F-15	AIR INTERDICTION	41 5-32 54 73 33
A-7	AIR INTERPITATION	94 7411 48 2 601
F-14	AIR INTERDICTION	40 ±0.1 46 1814
F-19	AIR INTERPIRTION	76 9690
8 H- 3	ASW(SEA BASED)	
SH-I	ASW(SEA BADED)	5. 2014 10. 046
SH-GOE	ASK(SEA BASEL)	13, 00% ₀
S-3	ASW(SEA PASED)	20 2277
ATT. SURB	ASW(SEA BASED)	34 6761
FRIGATES	ASW(SEA EASEID)	14 44분4
DISTROYERS	ASW(SEA BASED)	14. 4454
M-48	ARMY GROUND	8 66°0
M-60	AFMY GROUND	3. 9112
M-;	ARMY GROUND	6. 2853 20. 2813
M-551	ARMY GROUND	34.9212
M-901	ARMY GRIUND	9 0628
M-2/M-3	AFMY GROUND	6 285 9
M-113	ARMY GROUND	6. 28 58
MLRS	ARMY GROUNZ	0 6984
TOWED AFT.	ARMY GROUND	9. 4287
SELF-PROF.		4 1905
PERSHING	ARMY GROUND	5 5874
GLOMB	ARMY GROUND	14.6649
INFANTRY	ARMY GROUND	<u>24 4449</u>
MORTERS	ARMY GROUND	55, 8740
	ARMY GROUND	4 ଅଟେମ୍ପ
	The second secon	0 2095

NORMALIZED VALUES

											0, 3403 0, 3403 0, 3176 0, 2737 0, 0567 0, 0170
F-111 F-16 F-4	F-13 A-10	COERA INFANTRY	F-15 A-7	F-14 A-6 M-1	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	on-gob PERSHING FRIGATES	11. 3U H-2	MLKS DSTROVERS M-2/M-3 M-901	-60 ADI	当の	TOWED ART. M-48 ART. ACRET M-113 FULE: UNCH

```
NICKEL
A-10
            CAS
                                                     67. 4028
CODRA
            CAS
                                                     44 9312
F-4
            AIR INTERDICTION
                                                     73, 8902
            CAS
                                                      5 0552
F-16
            AIR
                                                     6 E.
                                                       4:48
                INTERBIETION
            CAB
                                                     37, 4450
ART. ACRET CAS
                                                        2468
                                                      3 0738
RADIO RLAY AIR INTERDICTION
                                                      2 5276
            CAS
                                                    123 1503
F-111
            AIR
                INTERDICTION
                                                     30, 9451
4-6
            AIB
                INTERDICTION
                                                    54, 7335
F-15
            AIR INTERDICTION
                                                     49 2601
4-7
            AIR
                INTERDICTION
                                                    46, 1814
F-14
            AIR INTERDICTION
F-18
            AIR INTERDICTION
                                                     76. 968°
            ASW(SEA BASED)
                                                      6, 9302
94-3
                                                     17, 3381
SH-2
            ASW(SEA BASED)
SH-60B
            ASW(SEA BASED)
                                                     26, 9703
8-3
            ASW(SEA BASED)
                                                     34.6761
                                                     43, 3452
ATT. SUBS
            ASW(SEA BASED)
                                                     26, 0071
FRIGATES
            ASW(SEA BASED)
                                                     15 6043
DSTROYERS
            ASW(SEA BASED)
                                                     39, 1118
M-48
            ARMY GROUND
                                                     62 8592
            ARMY GROUND
M-60
                                                     69, 8425
            ARMY GROUND
M-1
M-551
            ARMY GROUND
                                                      0. 6984
                                                     44 0009
M-901
            ARMY GROUND
                                                     50, 2866
M-2/h-3
            ARMY GROUND
M-113
            ARMY GROUND
                                                      4 8890
                                                     18 8575
MLRE
            ARMY GROUND
                                                     33, 5244
TOWED ART.
            ARMY GROUND
                                                     44 6000
SELF-FROM.
            ARMY GROUND
                                                     16, 7622
PERSHING
            ARMY GROUND
                                                     20, 9527
GLOMS
            ARMY GROUND
                                                     34, 9212
INFANTRY
            ARMY GEOUND
                                                     14.6669
MORTERS
            ARMY GROUND
ROLES LNOH ARMY GROUND
                                                      0.2095
```

7

450 to 000 4079 3611 2671 1910 5632 7014 5313 6296 5729 5197 1759 0000 8357 8158 0061 1118 7500 6488 5962 2500 6713 4732 1042 4444 0834 0000 40000000000000000 NORMALIZED VALUES F-111 HOND STOR ART ACRET RADIO RLAY SUBS TOMED ART SELF-PROP A-6. Infantry DSTROYER PERSHING FRIGATES MORTERS M-2/M-3 3H-60B SHOUS COERA 0-1-6 M.RS SH-2 100-M-40 F-18 F-14 F-16 F-15 9-10 P-10 M-60 7-

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FLUORSPAR ACID
A-10
            CAS
                                                     84 2534
COBRA
            CAS
                                                     44 9752
            AIF
                INTERBICTION
                                                    123, 1503
            CAS
                                                      8, 4254
F-16
            AIR INTERDICTION
                                                    85 5210
            CAS
                                                    46, 8075
ART. ACRET CAS
                                                     3 3701
RADIO RLAY AIR INTERDICTION
                                                      3 0788
            CAS
                                                      2, 5276
F-111
            AIR INTERDICTION
                                                   153, 9378
A-6
            AIR INTERDICTION
                                                    46 1814
F-15
                INTERDICTION
            AIR
                                                    68
                                                       4168
A-7
            AIR
                INTERDICTION
                                                    61, 5751
F-14
            AIR INTERDICTION
                                                    51, 3124
F-18
            AIR INTERDICTION
                                                    85, 5210
54-3
            ASW(SEA BASED)
                                                     6 9332
            ASW(SEA BASED)
SH-2
                                                    17, 3381
SH-60E
            ASW(SEA BASED)
                                                    33 7129
9-3
            ASW(SEA BASEI)
                                                    48, 3452
ATT. SUBS
            ASW(SEA BASED)
                                                    28. 8968
FRIGATES
            ASW(SEA BASED)
                                                    20, 2277
DSTROYERS
            ASW(SEA BASED)
                                                    12, 1367
M-43
            ARMY GROUND
                                                    11, 7335
M-60
            ARMY GROUND
                                                    18, 8575
M-1
            ARMY GROUND
                                                    20, 9527
M-551
            ARMY GRUUND
                                                     0. 20: 5
M-901
            ARMY GROUND
                                                    50, 2866
M-2/M-3
            ARMY GROUND
                                                    50, 2866
M-113
            ARMY GROUND
                                                     5, 5874
MLRS
            ARMY GROUND
                                                    15, 7146
TOWED AFT.
            ARMY GROUND
                                                    20 9527
SELF-PROP.
            ARMY GRUUND
                                                    27. 9370
PERSHING
            ARMY GROUND
                                                    14,6669
GLOMS
            ARMY GROUND
                                                    24, 4449
INFANTRY
            ARMY GROUND
                                                    55, 8740
MORTERS
            ARMY GROUND
                                                    24 4449
ROLES LNOH ARMY GROUND
                                                     0. 2095
```

Z

4732 4444 3333 2667 0000 9191 8158 1900 8772 8148 8148 5880 5880 3611 3611 1263 0208 9528 7894 0000 6206 4505 3642 ರಹಹಗಳಿಕ್ಕಣೆಗೆಗಳಿಗಳಿಗಳಿಗಳಿಗಳ 4440000000000 NORMALIZED VALUES HONT SETON RAPTU RLAY ALFFT SH-60B ATT, SUBS SELF-PROP DITROYERS TOWED ART FRIGATES PERSHING NFANTRY 4-2/M-3 MORTERS A-6 COBRA GLCMS M-113 1-901 F-14 09-W H_RS M-40 9H-2 O-HW 01-4 () () ()

PYRETHRUM

ATT SUES	PSMISER BASEDI
M-4E	ARMY CRUCKE
M-60	ARMY GROUND
M-113	ARMY GROUND
TOWED ART.	ARMY GROUND
SELF-PROP.	ARMY GROUND
INFANTRY	APMY GROUND
MORTERS	ARMY GROUND

14, 4484 27, 3783 44, 0008 4, 8890 29, 2028 39, 1118 69, 8425 34, 2228

NORMALIZED VALUES

10.0000
€, 3000
5, 6000
4,9000
4. 2000
3, 9200
2. Q687
0. 7 000

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ALL COMMODITIES
A-10
            CAE
                                                      2 8645
CUERA
            CAS
                                                        9479
                                                      1
F-4
             AIR INTERCLITION
                                                      3. 940E
            CAS
                                                      0. 2696
F-16
            AIR INTERPICTION
                                                        9077
            CAB
                                                      1, 5915
ART. ACRET CAS
                                                      0.1236
RADIO RLAY AIR INTERDICTION
                                                      9, 1232
            CAS
                                                      O. 1011
F-111
            AIR INTERLIGHTED
                                                      5 28-3
4-6
            AIR INTERDICTION
                                                      1.6163
F-15
            AIR INTERDICTION
                                                      2,3162
A-7
            AIR INTERDICTION
                                                      2, 0936
F-14
            AIR INTERPICTION
                                                      1.8473
F-18
            AIR INTERDICTION
                                                      3, 0788
SH-3
            ASW(SEA BASED)
                                                      0 2514
SH-2
            ASW(SEA BASED)
                                                      0. 6285
SH-&OB
            ABW(BEA BABED)
                                                      1 0451
5-3
            ABW(SEA BASED)
                                                      1.4737
ATT. SUBS
            ASW(SEA BASED)
                                                      1, 2522
FRIGATES
            ASW(SEA BASED)
                                                      0.7513
DISTROYERS
            ASW(SEA BASED)
                                                      0.4508
M-45
            ARMY GROUND
                                                      1.1734
            ARMY GROUND
M-60
                                                      1.8807
M=1
            ARMY GROUND
                                                      1.8857
M-551
            ARMY GROUND
                                                     C 0117
M^{-\Phi}\oplus 1
            ARMY GROUND
                                                      1,5086
M-2/M-3
            ARMY GRITHIND
                                                      1 5065
1-113
            ARMY GROUND
                                                     0.2095
M. RE
            APMY GRIDUND
                                                     0.6293
TOWED ART
            ARMY GROUND
                                                     1.1314
SELF-PROP
            ARMY GROUND
                                                     1,5086
PERSUING
            ARMY GROUND
                                                     0. 6086
GLOME
            ARMY GROUND
                                                     0. 9778
            ARMY GROUND
INFAUTEY
                                                     2, 2350
MOFTERS
            ARMY GROUND
                                                     1, 1245
FOLES ENCH ARMY GROUND
                                                     0.0210
```

VALUES	0																														1752 0		
NORMALIZED VAL	-	F-16	F-4	F-18	A-10	F-15	INFANTRY	A-7	COBRA	<u>-</u> Ε	M60	F-14	A-6	M-2/M-3	M-901	SELF-PROP.	ATT, SUBS	M-48	TOWED ART.	MORTERS	SH-60B	GLCMS	FRIGATES	PERSHING	M.Ro	SH-2	DSTROYERS	© H- 0	RADIO RUAY	M-113	ORT ACKET	HUND CHUR	1.

CRIBICALITY OF SHIPSFALL

	COME	FILE	FALL	TRAKE-		CRITIC-	FE/SHETEL 12
· COMMODITY	(UNITS)	(UNITE)	(%)	LATED	IMPORT.	ALITY	CAIT : LALITY
C BALT	85 4	43 B	-AB 7:	402 5	€ 4	ଓଡ଼ିଆ ବୃଦ୍ୟ	7 9
- TIN	42 0						
NICKEL	200 0	32, 2	-83, 9	437.7	10.0	4355 1	• • •
F JURSPAR ACID	1400. 0				S. 5		
P RETHRUM	500 0	$\phi \circ \phi = 0$	-100 O	453 B	4 :	1877 4	$\mathcal{L} = \mathcal{L}$

COMPOSITE IMPORTATIO (LOC 3)

COBALT

SI JRCE FI (LARD) MORGOCO

LIAMEIA

BUTEWAYNA DENTH AFFICA C SHITH AFFICA C ZAIRE

FRILIFFINES AND RALIA

NEW CALEDONIA

AMOUNT SUPPLIED 1300 450 250, 151, 9000, 250, 400 250, 1100	% 05 T0TAL 6.43 2.14 1.19 0.71 42.81 16.11 0.20 1.19 5.72	00%F08ITE IMF08TAK1E 1 72 2 05 1 76 2 21 1. 76 1. 76 0 81 0.81 0.82	0.550 0.487 0.569 0.402 0.569 0.069 1.216 1.216	%(1/II) 2 TI: 1 0/3 0 2TB 0 2T 24.402 4 4 5 6 I-5 2.316 1 447
 1100 4500.	5 74 21 43	0. 84 2. 61 2. 31	0, 393 0, 432	2 45 7 2 5 7 9, 246

TOTAL: 21000 100 00

COMPOSITE IMPORTANCE (L0:1 3)

TIN

	AMOUNT	% OF	COMPACT TO		
			COMPOSITE		
SOURCE	SUPPLIED	TOTAL	IMPORTANCE	1/0I	%(1/01)
AUSTRALIA	100.	0.15	0, 82	1. 216	0. 180
U A	16100.	23, 82	2, 31	0.432	10, 299
THRILAND	5900.	8. 7 3	0. 82	1. 216	10.611
INDONESIA	5800.	8, 58	0. 82	1. 216	10, 431
(UF).	100.	0.15	1. 76	0. 569	0. 084
EGLIVIA	10300.	15, 24	0 . 90	1. 117	17, 014
BRAZIL	2400.	3. 5 5	0. 90	1. 117	3, 964
(FF)	3000.	4.44	2, 33	0. 429	1, 905
MÉ AYSIA	23900.	35, 34	0 82	1. 216	42, 983
•					

TOTAL: 67600. 100.00

COMPOSITE IMPORTANCE (LCC 3)

, D	AMOUNT EU-PLIET	್ತರ್ ಕೃತ್ತ	001/F0817E 1484 -18415 - 170	1 -
rminis Finland	1.000.0	0. 33	1, 72 0, 58	
FIGEREA FOUTH AFRICA	\$000.	1 64	2.91 0.433	
F ILIPPINES	5000	1 64	0. 82 1. 21	
HIBIFALIA	28000	8, 21	0.82 1.21	
EANADA	1500000.	49, 28	2, 61 0 38	
U ™ E	- asidoo.	28, 91	2, 31 0, 43	
O EEGE	6 00	0.20	1, 76 0, 56	
NETHERLANDE	200.	0.07	1, 76 0 0 04	
F	100.	0.00	1, 74 0, 56	
SULLAVIA	売むこ	0 1c	1 76 O No	
UTER	5000.	1. 64	0, 80 1, 16	
POM ERRUE	15000	4 93	1 BE 9 72	
G STAMALA	4 000.	1 3.	1 38 0 72	
INDONEBIA	5000	1, 64	0,82 1,21	6 1 Gum
	TOTAL: 304400.	100 00		

COMPOSITE INFORTANCE (LOC 3)

FLUORSPAR ACID

SOURCE

- ITALY

SSUTH AFRICA

SPAIN E IT AFRICA THAILAND MEXICO

	AMOUNT SUPPLIED 180. 70. 45. 100. 28. 15. 350.	% 05 TOTAL 22.34 8.70 8.07 12.42 3.11 1.86 43.48	00MP08ITE IMPORTANCE 2 31 2 31 1 76 1 76 1 76 0 82 2 31	1/01 0, 432 0, 432 0, 569 0, 569 0, 569 1, 216 0, 432	%(1/61) 9,669 9,760 4,597 7,073 1,7,9 2,245 18,801
TOTAL:	805 .	100.00			

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

TOURCE BOUTH AFRICA AUSTRALIA JOUNNA CHAYA RWANDA TANZANIA	AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000.	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 39, 49	COMPOSITE IMPORTANCE 2. 31 0. 82 1. 76 1. 76 1. 76 1. 76	1/CI 0. 432 1. 216 0. 569 0. 569 0. 569	%(1/CI) 0, 438 0, 923 3, 171 23, 063 7, 207 22, 437
	TOTAL: 197500.	100.00			

SOURCE IMPOSTANCE (EGG 3)

*	M13/03) Cump 10:5	FF /FWHK TEALL CRITICALITY	TOTAL	%IF%2_12EP T0 100
			121112	
FINLAND MURCCCO DOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEBONIA CANADA U S	1 791 1 043 0 478 0 309 24 401 9 450 0 289 2 316 1 447 2 007 9 24 1	7 76 7 76 7 76 7 76 7 76 7 76 7 76 7 76	20 93 8, 09 5, 26 2 40 189, 25 73, 60 2, 24 17, 96 11, 22 15, 54 71, 87	15 25 4, 27 2, 78 1, 27 100, 00 78 8 1, 19 9 45 5 98 9 1 87 87
TIN AUSTRALIA U S THAILANU INDONESIA ' US BOLIVIA EFAZIL FRI MALAYSIA	0.180 10.299 10.611 10.491 -0.084 17.014 -3.984 1.900 42.983	0, 00 0, 00 0, 00 0 00 0, 00 0, 00 0 00 0 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,0
FINLAND SOUTH AFRICA PHILIFFINES AUSTRALIA CANADA US GREECE NETHERLANDS FRG YUGOSLAVIA USSR IOM. REPUB GUATAMALA INDONESIA	0. 191 0. 710 1. 997 9. 985 18. 877 12. 531 0. 112 0. 037 0. 019 0. 094 1. 905 3. 592 0. 955 1. 997	10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00 10,00	1, 51 7, 10 19, 97 99, 85 188, 77 125, 01 1, 12 0, 37 0, 19 0, 94 19, 05 35, 82 9, 55 19, 97	
FLUORSFAR ACID SOUTH AFRICA TU S ITALY SPAIN EAST AFRICA THAILAND MEXICO	9, 669 3, 760 4, 597 7, 073 1, 768 2, 265 18, 801	8, 51 8, 51 8, 51 8, 51 8, 51 8, 51	82, 28 32, 00 39, 12 60, 19 15, 05 19, 28 159, 98	16, 91 20, 67 31, 80 7, 95 10, 19
PYRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 438 0, 923 3, 171 23, 063 7, 207 22, 487	4, 35 4, 35 4, 35 4, 35 4, 35 4, 35	1, 91 4, 02 13, 81 100, 42 31, 38 97, 91	2, 12 7, 30 53, 06

SOURCE IMPORTANCE RANKET BY BOURDE (LOC B)

SOURCE	COMMOLITY	VALUE
ZAIRE	COPALT .	100.00
CANA D A	NICKEL	원립, 결활
MEXICO	FLUORSHAF ACII	គួល ក្ន
บร	NICKEL	66, 96
KENYA	RYRETHRUM	5 3 0 4
AUSTRALIA	NICKEL	52, 76
TANIANIA	FYRETHRUM	E1 74
SOUTH AFRICA	FLUCH PAR ACID	42.2
ZAMETA	COPALT	명명 <i>문</i> 학
U.S.	COBALT	27 KD
SPAIN	FLUORSPAR ACID	31, 80
ITALY	FLUORSPAN ACID	20.67
DOM. REPUE.	NICKEL	18, 93
U 8	FLUGRSPAR ACID	16. €1
RMANDA	FYRETHRUM	16. 59
FINLAND	DOBALT	15 229
INDONESIA	NICKEL	10.55
PHILIPPIKES	NINEL	10.0.
THAILAND	FLUCRSPAR ACID	10 19
MSSR	NICHEL	10, 04
AUSTRALIA	COBALT	ବ 4ବ
CANADA	COBALT	8. <u>2</u> 2
EAST AFRICA	FLUORSPAR ACID	7. 95
ON.	PYPETHALE	7, 20
NEW CALEDONIA	COBALT	<u>.</u> 93
	NICKEL	5 03
GUATAMALA Mangasa	COBALT	4, 27
MOROCCO	NICKEL	3, 75
SOUTH AFRICA		2. 78
BOTSWANNA	COBALT	2.12
AUSTRALIA	PYRETHRUM	1. 27
SOUTH AFAIDA	008AL1	1. 19
PHILIPPINES	COBALT	1. 01
SOUTH AFRICA	FYRETHRUM	1. 01
FINLAND	NICKEL	• • • •
GREECE	NICKEL	0, 59
YUGOGLAVIA	NICKEL	0.49
NETHERLANDS	NICKEL	0. 20
FRG	NICKEL	0. 10
MALAYSIA	TIN	0. 00
PRC	TIN	0. 00
. BRAZIL	TIN	0. 00
· BOLIVIA	TIN	0. 00
UK	TIN	O. O O
INDONESIA	TIN	O. O O
THAILAND	TIN	0. 00
US	TIN	0, 00
AUSTRALIA	TIN	0 . 00
•		

SCENARIO 19

```
WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                  Level of Conflict 3 Media 1
                                                      7
Region
          1
                                                             ε
                                4
                                                                          10
                                       7 (
                        7. Q
                               5. O
l eaght
         10.0
                10.0
                                              2.0
                                                     2. 0
                                                            2.0
..CÕEF 0.1786 0.1788 0.1250 0.0893 0.1250 0.0357 0.0357 0.0893 0.0357 0.1611
                  Level of Conflict 3 Media 2
Pagion
          1
                                                             8
         11
 Jaga on:
         10.0
                        9. 0
                                              5. 0
                10.0
                                4.0
                                       7. 0
                                                      1. 0
                                                             8.0
                                                                    7. 0
                                                                           50
Weight
Parcht
          9.0
 [MODEF 0.1333 0.1333 0.1200 0.0533 0.0933 0.0647 0.0133 0.1047 0.0933 (.1](1
1/00EF 0.1200
                  Level of Conflict 3 Media 3
                        3
f saion
          1
                                Δ
         10.0
                10.0 10.0
                               80
l sight
                                      6. 0
                                              4. 0
1/COEF 0.1786 0.1786 0.1786 0.1429 0.1071 0.0714 0.1429
                  Level of Conflict 3 Media 4
                 2
F gion
          1
Height
         10.0
                 4. 0
                        2. 0
I/COEF 0.5882 0.2853 0.1174 0.0583
             INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
             or the Importance of Controlling EACH region within its own Media
M dia
Region
I TOBER O 0228 O 0229 O 0160 O 0114 O 0160 O 0046 O 0046 O 0114 O 0046 O 0157
- Jia
Region
                          3
                                        5
                                                       7
                                                Ŀ.
                                                                            10
Media 11
h gion
Figure 0.0171 0.0171 0 0154 0 0048 0.0119 0.0085 0 0017 0.0188 0.0119 0 0085
I/COEF 0.0154
🏲 ಚಕ್ಷ
Figion
1/COEF 0.0228 0.0228 0.0228 0.0183 0.0187 0.0091 0.0183
Midia 4
 quen
           1
1/COEF 0.0752 0.0301 0.0150 0.0075
I portance of controlling ANY Region
Within its Media as compared to the Importance
of controlling ANY Region of any other Media
M dia
F-gion
                                                Ł.
1/COEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0050
Media 2
                          3
                                         5
                                                       7
F gion
                                                                            10
media 11
Region
I.COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
ID-COEF 0, 0033
Media 3
F.gion
I COEF 0,0060 0,0060 0,0060 0,0048 0,0036 0,0024 0,0048
Media 4
Fedion
I-COEF 0.0065 0.0026 0.0013 0.0007
```

FORCE ELEMENT IMPORTANCE (LDI 3

	ELEMENT	FORCE ELEMENT	CALCULATED	NORMALIZED
RANGING	NUMBER		VALUE	
1	1 7	CARRIER PATTLE GROUP	0.141	1Θ , Φ Φ
2	1	AIR INTERPIETIES	0 117	. 8 2
3	3	ARMY GROUND	0. 104	
4	16	ATTACK SUBS	0. 072	
5	1 🕾	SURFACE COMPATANTE	0.060	
€	12	THEATER NULLEAR WEAPON	0.054	
7	8	RAPID DEPLOY	0.052	
8	ć.	CAS	0, 044	
ç.	14	ASW(LAND BASEI)	Q. Q4 3	
10	22	AIR SUPERIURITY(LAND BA		
11		ASW(SEA BASED)	0.033	
12	2 3	AIR SUMERIUFITY (SHIE BE	SELO 0.031	2 2 73
13	21	AIR DEFENSE (SHIP BASED)		2 065
14	10	STRATEGIC BOMBER	0, 025	
15	25	SPOE BASED WEAFON(AIR C		
16	29	ABAT(SPACE BABED)	0.013	
17	18	MINE WARFARE	0.013	
18		AMPHIBIOUS ASSAULT	0.011	
1 🕾	13	SPECIAL OPERATIONS	0.010	
20	28	ABAT(LAND BABED)	0.007	
21	20	AIR DEFENSE(LAND FASED)		
22	C)	SPEE-BASED WEAPON(LMD C		
23	3:0	SPOE BASED WEAPON(SEA C		
24	27	ABM(BRACE BASED)	$\hat{Q} = \hat{Q} \oplus \hat{Q}$	
25	26	ABM(LAND BASED)	0.000	•
26	24	INTERIERTOR AIRIBART	0.000	
27	11	SLBM	0, 000	
29		ICEM	0.000	
29	5	CIVIL DEFENSE	0, 000	
30	4	CBW	0 000	0 000

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	5, 71
ARMY GROUND	4, 52
CAS	1, 75
ICBM	0.00
STRATEGIC BOMBER	1.79
SLBM	0.00
ASW(SEA BASED)	1. 27
CARRIER BATTLE GROUP	10, 00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2. 91
AIR SUPERIORITY (SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ASAT(LAND BASED)	0, 51
	34 99

TIN

AIR INTERDICTION	5,90
ARMY GROUND	1, 92
CAS	1.91
STRATEGIC BOMBER	1 79
ASW(LAND PASED)	3, 03
ASW(SEA BASED)	1.11
ATTACK SUBS	5 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	O. 877
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0, 00
ABM(LAND BASED)	0.00
	41.18

NICKEL

AIR INTERPICTION	5 60
ARMY GROUND	4 92
CAS	1.72
STRATEGIC BOMBER	1. 79
ASW(SEA BASED)	1.71
ATTACK SUBS	5, 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	O. 87
SURFACE COMBATANTS	4 20
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0. 00
	41 01

FLUORSPAR ACID

	~~~~
AIR INVERDICTION	7.13
AMPHIBIOUS ASSAULT	0. 76
ARMY GROUND	3. 69
CAS	2.05
ICEM	೦. ೦೦
STRATEGIC BOMBER	1.79
SLBM	0.00
ASW(LAND BASED)	3.08
ASW(SEA BASED)	1.60
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2. 91
AIR SUPERIORITY(SHIP BASED)	2 28
INTERCEPTOR AIRCRAFT	0.05
ABM(LAND BASED)	0, 00

### FYRETHRUM

ARMY GROUND	2. 69
CIVIL DEFENSE	0.00
ASW(SEA BASED)	0.14
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
	17, 08

#### COMMODITY NORMALIZED IMPORTANCE

NICKEL	10.00	(	41, 21)
TIN	9, 99	(	41. 18)
FLUORSPAR ACID	<b>9. 6</b> 0	(	39, 57)
COBALT	େ 4ର	(	34, 99)
FYRETHRUM	4. 14	(	17, 08)

```
COBALT
A-10
            CAS
                                                     72. 7833
COBRA
            CAS
                                                     48 4801
            AIR
                                                    103, 5050
                INTERDICTION
                                                      7, 2734
            CAS
F-16
            AIR INTERDICTION
                                                     71 8785
            UAB
                                                    40, 4075
AFT. ACRET CAS
                                                      3, 6367
RADIO RLAY AIR INTERDICTION
                                                      3, 2345
                                                      2. 7275
            CAS
F-111
            AIR INTERDICTION
                                                   129, 3513
4-6
            AIR INTERDICTION
                                                     38.8144
F-15
            AIR INTERDICTION
                                                    57, 5028
A-7
            AIR INTERDICTION
                                                    51, 7525
F-14
            AIR INTERDICTION
                                                    43, 1271
F-18
            AIR INTERDICTION
                                                    71, 8785
SH-3
                                                     6. 0775
            ASW(SEA BABED)
SH-2
            ASW(SEA BASEL)
                                                    15, 1937
SH-SOE
            ASW(SEA BASED)
                                                     23 6346
9-3
            ASW(SEA BASED)
                                                     34, 7284
ATT.
     SUBS
            ASW(SEA BASED)
                                                    24, 1169
FRIGATES
            ASW(SEA BASED)
                                                     14.4701
DETROYERS
            ASW(SEA BASED)
                                                     8.6821
M-48
                                                    37, 9669
            ARMY GROUND
M-60
            ARMY GROUND
                                                    61.0182
            ARMY GROUND
M-1
                                                     67, 7980
            ARMY GROUND
                                                     0. 2260
M-551
M-901
            ARMY GROUND
                                                    54, 2384
M-2/M-3
            ARMY GROUND
                                                     47, 4586
M-113
            ARMY GROUND
                                                      5, 2732
MLFE
            ARMY GROUND
                                                    20, 3394
TOWED ART.
            ARMY GROUND
                                                    27, 1192
SELF-PROP.
            ARMY GROUND
                                                    36 1599
PERSHING
            ARMY GROUND
                                                    18,0795
GLOMS
            ARMY GROUND
                                                    30, 1324
INFANTRY
            ARMY GROUND
                                                     7, 5331
MORTERS.
            ARMY GROUND
                                                    36 9122
ROLES LNOH ARMY GROUND
                                                      1,5820
```

```
7478
6681
3333
0000
9345
7348
7348
0961
8640
3771
                                                                                      1743
1184
6710
5822
4697
      6787
5622
6216
5556
7162
7162
                              1921
                                                                                                       2094
      NORMALIZED VALUES
                                                                                                       RLAY
                                                                                                              ART, ACRET
                                                                                                                 MOLES LNCH
                                                       MORTERS
SELF-PROP.
                                                                 GLCMS
TOWED ART.
                                                                        ATT. SUBS
                                                                                         FRIGATES
                                                                                  PERSHING
                                                                                            DSTROYER
                                                                                                NFANTRY
                                        M-2/M-0
                                                                           SH-60B
                                                                                                       RADIO
M-113
                                    שמני
                              M-901
                F-18
                        M-60
                           F-15
                                                 A-6
M-43
```

TIN		
<b>£</b> :=10	CAS	72, 7333
COBRA	CAS	64,6511
F-4	AIR INTERDICTION	107 5050
	CAS	7 2734
F-16	AIR INTERDICTION	71, 8785
	CAS	40 4175
AFT, ACRET	043	3, 6267
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2, 7275
F-111	AIR INTERDICTION	129, 3813
A-6	AIR INTERDICTION	43 6662
F-15	AIR INTERDICTION	57, 5028
A-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	48 5180
F-18	AIR INTERDICTION	80, 8633
SH-3	ASW(SEA BASED)	<b>5. 2</b> 093
8H-2	ASW(SEA BASED)	10. O231
SH-60B	ASW(SEA BASED)	20, 2582
9-3	ASW(SEA BASED)	34 7284
ATT. SUBS	ASW(SEA BASED)	14, 4701
FRIGATES	ASW(SEA BASED)	14, 4701
DSTROYERS	ASW(SEA BASED)	8, 6821
M-48	ARMY GROUND	4, 2185
M-60	ARMY GROUND	6 7798
M-1	ARMY GROUND	37, 6655
M-551	ARMS GROUND	0.0753
M-901	ARMY GROUND	<b>6. 7</b> 7⊇8
M-2/M-3	ARMY GROUND	<b>6. 77</b> 98
M-113	ARMY GROUND	0, 7533
MLRE	ARMY GROUND	10, 1697
TOWEL ART.	ARMY GROUND	4, 5199
SELF-PROP.	ARMY GROUND	6, 0265
PERSHING	ARMY GROUND	15, 8195
GLOMB	ARMY GROUND	24, 345%
INFANTRY	ARMY GROUND	60, 2649
MORTERS	ARMY GROUND	5 2732
ROLES INCH	ARMY GROUND	0. 2260

NORMALIZED VALUES

0, 7860 0, 6710 0, 5240 0, 5240 0, 5240 0, **4**658 0, 4608 5658 2227 118**4** 1184 . 0066 0,4076 0,4026 0.3493 0378 0,2811 6216 9970 6579 3750 9112 6842 8. 6787 8. 5622 6. 2500 4444 0000 7500 10,0000 M-40 ART, ACRET POLES LNCH M-DOL RADIO RLAY MORTERS M-60 SELF-PROP. TOWED ART. ATT, SUBS DSTROYERS PERSHING FRIGATES M-2/M-3 M-901 INFANTRY 3H-60B M-113 GLCMS SH-2 MLRS COPRA F-111 F-13 Q-10 F-15 F-14 F-16 0-9 0-9 A-7 F-4 F

```
NICHEL
A-10
            CAS
                                                    72, 7334
COPRA
            CAS
                                                    48 48 1
F-4
            AIR INTERBIOTION
                                                    77 6288
            CAS
                                                     5 4500
F-16
            AIF. INTERDICTION
                                                    71 8785
            046
                                                    40 4000
ART. ACRET CAS
                                                     2 4245
RADIO RLAY AIR INTERDICTION
                                                       2345
            CAS
                                                       7275
F-111
            AIR INTERBIGTION
                                                   128, 3813
A-6
            AIR INTERDICTION
                                                    38 8144
F-15
            AIR INTERDICTION
                                                    57 5028
4-7
            AIR INTERDICTION
                                                    51, 7525
F-14
            AIR INTERDICTION
                                                    48 5180
F-18
            AIR INTERDICTION
                                                    80 8673
SH-3
            ABW(SEA BABED)
                                                     6 9400
            ASW(SEA BASED)
                                                    17, 3642
SH-60F
            ASW(SEA BASED)
                                                    27 Q10F
5-3
            ASW(SEA BASED)
                                                    34, 7284
ATT. SUBS.
            ASW(SEA BASED)
                                                    42,4104
FRIGATES
            ASW(SEA BASED)
                                                    26,0463
DETROYERS
            ASW(SEA BASED)
                                                    15 6278
M-48
            ARMY GROUND
                                                    42 1854
            ARMY GROUND
M-60
                                                    67, 7980
M-1
            ARMY GROUND
                                                     75 9311
                                               O
M-SEI
            ARMY GROUND
                                                     0.7533
M-901
            ARMY GROUND
                                                    47, 4586
M-2/M-5.
                                                    54, 2354
            ARMY GROUND
M-113
            ARMY GROUND
                                                     5, 2732
MLRE
            ARMY GROUND
                                                    20, 33-4
TOWED ART.
            ARMY GROUND
                                                    36, 1589
SELF-PROP.
            ARMY GROUNE
                                                    48 2119
18:0795
            ARMY GROUND
PERSHING
GLOMS
            ARMY GROUND
                                                    22, 5993
INFANTRY
            ARMY GROUND
                                                    37 6455
MORTERS
            ARMY GROUND
                                                    15 8195
ROLES ENCH ARMY GROUND
                                                     0.2260
```

I

																															6, 1874 0, 1874	
NORMALIZED VALUES	F-111	F-16	F-4	F-18	1	7	M-60	7	1	A-7	F-14	COBRA	SELF-PROP.	10c-M	ATT, SUES	M-48	A-6	INFANTRY	TOWED ART.	m (n	FRIGATES	3	Œ	PERSHING	SH-2	MORTERS	DOTROYERS	φ <u>++0</u> 0	RADIO RLAY	-1-	ART ACEFT	FIGURES FOR

FLUORSPAR (	ACID	
A-10	CAS	90, 9170
COBRA	CAS	48, 4891
F-4	AIR INTERDICTION	129, 3813
	CAS	9, 0917
F-16	AIR INTERDICTION	89 8481
	CAS	50 5094
ART. ACRET	CAS	3. 6367
RADIO RLAY	AIR INTERDICTION	3, 2347
	CAS	2. 7275
F-111	AIR INTERDICTION	161 7266
A-6	AIR INTERDICTION	48, 5180
F-15	AIR INTERDICTION	71.8785
A-7	AIR INTERDICTION	64. 6906
F-14	AIR INTERDICTION	53. ୭୦୫୬
'F-18	AIR INTERDICTION	89, 8491
5 <del></del> 3	ASK(SEA BABED)	6, 9437
SH~2	ASW(SEA BASED)	17, 3642
SH-60B	ASW(SEA BASED)	23, 7437
S-3	ASW(SEA BASED)	43, 4104
ATT, SUBS	ASW(SEA BASED)	28, 9403
	ASW(SEA BASED)	20, 2582
DSTROYERS	ASW(SEA BASED)	12, 1549
M-48	ARMY GROUND	12, 6556
M-60	ARMY GROUND	20, 3394
M-1	ARMY GROUND	22, 5993
M-551	ARMY GROUND	0, 2260
M-901	ARMY GROUND	54, 2384
M-2/M-3	ARMY GROUND	54, 2384
M-113	ARMY GROUND	6, 0265
MLRS	ARMY GROUNI	16, 9495
TOWED ART.	ARMY GROUND	22, 5993
SELF-PROP.	ARMY GROUND	30, 1324
PERBHING	ARMY GROUND	15, 8195
GLCMS	ARMY GROUND	26, 3659
INFANTEY	ARMY GROUND	60. 2649
MORTERS	ARMY GROUND	26, 3659
RCLES LNCH	ARMY GROUND	0. 2260
		v. 2200

NORMALIZED VALUES

									3, 3537												1, 2576										0, 2240	
TOTAL TEEN VALUE	-111	-16	4	01-t	-18	-15	-7	NFANT		106-	-14	Ŷ	0	ტ 1 ტ	H-60	Ŧ	TT, SUBS	ORTER	$\Box$	SWE	 P	Z	SH-2	- RS	PERSHING	-40	DSTROYERS	0-I0	-113	ADIO	<u>ا</u>	<u>.                                    </u>

#### FYEETHEUM

ATT SUBS ASW(SEA BASED)
M-45 ARMY GROUND
M-60 ARMY GROUND
M-113 ARMY GROUND
TOWED ART. ARMY GROUND
SELF-FROM. ARMY GROUND
TWEANTRY ARMY GROUND
MORTERS ARMY GROUND

14, 4701 29, 51, 3 47, 4586 5, 2732 31, 6390 42, 1854 75, 3311

36, 9122

#### NORMALIZED VALUES

INFANTRY 10,0000 M-60 6, 3000 SELF-PROP. 5, 6000 4, 9000 MORTERS 4, 2000 TOWED ART. M-48 3.9200. ATT. SUBS 1, 9209 0.7000 M-113

ALL COMMOI	)ITIES	
A-10	CAS	3 0912
COBRA	CAS	2 1012
F-4	AIR INTERDICTION	4 14 1
	CAS	0 2909
F-16	AIR INTERDICTION	3 0548
	CAS	1 7173
ART, ACRET	CAS :	0.1333
RADIO RLAY	AIR INTERDICTION	0 1254
	CAS	0 1091
F-111	AIR INTERDICTION	5 4997
A-6	AIR INTERDICTION	1.6081
F-15	AIR INTERDICTION	2 44 ==
A-7	AIR INTERDICTION	2 1995
F-14	AIR INTERDICTION	1 9407
F-18	AIR INTERDICTION	3, 2345
SH-3	ASW(SEA BASED)	0.2518
8H-2	ASW(SEA BASED)	0. 6295
SH-60B	ASW(SEA BASED)	1. 0467
S-3	ASW(SEA BASED)	1.4750
ATT, SUBS	ASW(SEA BASED)	1. 2541
FRIGATES	ASW(SEA BASED)	0. 7524
DSTROYERS	ASW(SEA BASED)	0 4515
M-48	ARMY GROUND	1 2656
M-60	ARMY GROUND	2 0339
M-1	ARMY GROUND	2 0339
M-551	ARMY GROUND	0.0128
M-901	ARMY GROUND	1.6272
M-2/M-3	ARMY GROUND	1.6272
M-113	ARMY GROUND	0 2140
MLRS	ARMY GROUND	0.6780
TOWED ART.	ARMY GROUND	1, 2204
SELF-PROP.	ARMY GROUND	1 6272
PERSHING	ARMY GROUND	0. 6730
GLOME	ARMY GROUND	1 0546
INFANTRY	ARMY GROUND	2. 4106
MORTERS	ARMY GROUND	1, 2128
ROLES LNOH	ARMY GROUND	0. 0226
	•	

10, 0000 8, 6787 8, 0585 5, 8824 3684 2330 2330 1447 2057 9180 8210 6009 3016 2807 2194 90.35 8213 0369 5294 9592 9592 9592 6842 4444 9889 0000 0882 42.37 NORMALIZED VALUES SH-60B FRIGATES PERSHING MLRS SH-2 INSTROYERS SH-3 RADIO KLAY ART, ACRET PCLES LNCH A-6 SELF-PROP. M-2/M-3 M-901 S-3 M-48 ATT, SUBS TOWED ART, MORTERS A-10 F-15 INFANTRY GLCMS COBRA M-1 M-60 M-113 F-111 F-16 F-4 F-18 F-14 A-7

#### CRITICALITY OF SHORTFALL

ALL FE 8 (LOC 3)

₹		<b>SIDDA</b>	SHOUL		FE/	-	NIEMALIITI
<b>U</b> ,	단단국도	FILE	FALL	TRANSH	CMODITY	CRITIC-	FERENET L
COMMODITY	(UNITE)	(UNITE:	C7. x	LATED	IMPORT.	ALITY	CRITICALITY
COPALT	8E 4	43 8	-42 7	402.5	8, 5	3418.1	7. €
TISN -	42.0	190 6	353 8	$\mathbf{O}_{\mathbf{c}}(\mathbf{O})$	10.0	<b>Q</b> . Q	0.0
NICKEL	200 0	32.2	-83, 9	437. 7	10.0	4377.1	10.0
FLUORSPAR ACID	1400 0	895 O	-3∞ i	ଓଡ଼ିନ୍ ନ	9.6	3744.3	£
F RETHRUM	500. ŏ	Q. G.	<b>-1</b> 00. 0	453 8	4.1	1880. 7	4 3

### COMPOSITE IMPORTANCE (LOC 3)

#### COBALT

SOURCE F NEAND M ROCCO BOTSWANNA SOUTH AFRICA Z IRE FHILIPPINES AUSTRALIA NEW CALEDONIA C NAIA		AMOUNT SUPPLIED 1350. 450 250. 150 12500. 50. 400. 250 1100 1000	% OF TOTAL 7, 71 2, 57 1, 43 0, 50 71, 43 0, 29 2, 29 1, 43 6, 29 5, 71	COMPOSITE IMPORTANCE 1, 92 1 50 0 71 1, 19 1, 92 0, 92 0, 92 0 92 2 89 2, 56	1/01 0,520 0,667 1,404 0,841 0,520 1,087 1,087 1,087 0,343 0,391	%(1/01) # 012 1 717 2 005 0 711 37 148 0 310 2 483 1 501 2 178 2 136
	TOTAL:	17500.	100 00	<u> 2</u> . UU	V. 391	# ( # 14 원 원 원 원 원 원 원 원 원 원 원 원 원 원 원 원 원 원

### COMPOSITE IMPORTANCE (LOC 3)

#### MIT

_	AMOUNT	% OF	COMPOSITE		
S' JRCE	SUPPLIED	TOTAL	IMPORTANCE	1/01	%(1/CI)
A STRALIA	100.	0. 15	0, 92	1. 087	0.161
U.S.	16100.	23. <b>8</b> 2	2, 56	0.391	ନ୍ଞ୍ୟ
THAILAND	<b>5</b> 900.	8. <b>7</b> 3	0, 92	1.087	9. <b>4</b> 33
I DONESIA Um	5800. 100.	8, 58 0, <b>1</b> 5	0, 92 1, 96	1, 087 0, 510	9, 322 0, 0 <b>75</b>
BOLIVIA	10300.	15. 24	0, 98	1. 020	15, 548
Br AZIL	2400.	3, 55	0, 86	1. 162	4, 125
PHI	3000.	4. 44	2. 47	0. 405	1. 796
MALAYSIA	23900.	35. 3 <i>6</i>	0, 92	1. 087	38.414
<b>*,</b>	TOTAL - 67600	100.00			

#### COMPOSITE IMPORTANCE (L00 3)

	NICHEL				
SLURCE FIRLAND SOUTH AFRICA FILIPPINES AUSTRALIA CANADA UUS GECE NETHERLANDS FRG YESOSLAVIA UUSR DOM REPUB GETALANDS	AMOUNT SUPFLIED 1000. 5000. 25000. 150000. 88000. 400. 200. 100. 500. 15000.	· · · · · ·	COMPOSITE IMPURTANCE 1. 92 1. 19 0. 92 0. 92 2. 89 2. 54 1. 94 1. 94 1. 53 1. 53		1/1 00% 0 171 1 381 1 785 8 824 17,004 11 311 0 101 0 034 0 047 0 084 1,742 8 280 0 841
TYDONESIA	500).  TOTAL: 304400.	1. 64	0. 92	1. 097	1 785
•	COMPOSITE (LOC 3)	IMPORTANS	Ē		
	Et tremes as				

### FLUORSPAR ACID

SOURCE

LINLY SFAIN

SOUTH AFRICA OUB

E(ST AFRICA TI HILAND MEXICO

	AMBUNT SUPPLIED 180 70. 45. 100. 25. 15. 350.	% OF TOTAL 22, 36 8, 70 8, 07 12, 42 3, 11 1, 86 43, 48	COMPOSITE IMPORTANCE 1. 19 2. 56 1. 96 1. 96 0. 71 0. 92 2. 56	1/01 0.841 0.891 0.510 0.510 1.404 1.087 0.391	%(1/01) 18.80: 2.401 4.120 4.388 4.308 2.025 17.011
TOTAL	905	100.00			

COMPOSITE IMPORTANCE (LOC 3)

#### FYRETHRUM

TOTAL: 197500. 100.00

TANZANIA	<b>7</b> 8000.	39.49	0. 71	1. 404	55 433
RUANDA	25000.	12, 66	0. 71	1. 404	17, 767
FE 1AU	80000.	40, 51	0. 71	1. 404	56, 853
UK	11000.	5. 57	1.96	0. 510	2, 842
AUSTRALIA	1500.	0. 76	0. 92	1. 087	0 825
SEUTH AFRICA	2000.	1. O1	1. 19	0. 841	0.852
SCURCE	SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/61)
•	AMOUNT	% OF	COMPOSITE		

## SOURCE IMPORTANCE (LGC 3)

SOURCE	%(1/CI) COMP IME	FE/SHORTFALL CRITICALITY	TOTAL	NORMALIZZI TO 100
FINLAND MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCCO MOROCC	4. 012 1. 715 2. 005 0. 721 37. 145 0. 310 2. 483 1. 552 2. 175 2. 276	7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81	31, 33 13, 40 15, 66 5 63 290, 09 2, 42 19, 39 12, 12 16, 99 17, 43	10.80 4.60 5.40 1.94 100.00 0.84 6.69 4.13 5.86 6.00
AUSTRALIA U S THAILAND INDONESIA UE BOLIVIA BEAZIL ERC MALAYSIA	0, 161 9, 319 9, 488 9, 322 0, 075 15, 548 4, 125 1, 756 38, 414	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00
PNICKEL FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA US GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0, 171 1 381 1, 785 8, 924 17, 054 11 311 0, 101 0, 034 0, 017 0 084 1, 742 3, 230 0 861 1, 785	10 00 10 00	1, 71 13, 81 17, 85 89, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 82, 30 8, 61 17, 85	
FLUORSPAR ACID SOUTH AFRICA TU S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	10, 03 12, 15 18, 69 12, 85 5, 97
PYRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 852 0, 825 2, 842 56, 855 17, 767 55, 433	4 30 4 30 4 30 4 30 4 30 4 30	3, 66 3, 55 12, 21 244, 29 76, 34 238, 18	1, 22 4, 21 84, 21 26, 32

#### SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

	SOURCE	COMMODITY COPALT FIRETHOUT PYRETHRUM NICKEL FLUORSPAR ACID	VALUE
	ZAIRE	CONTORAL T	100.00
	KENYA		84 21
	TANZANIA	EVESTHERM	82 11
	THISTOR	NITCLE:	58. <b>7</b> 9
	CANADA	FLUORSPAR ACID	55.45
		- FLOUR DE MET HOUSE - FERNON-SINGE - AND TE	50, 14
	MEXICO	FLUCKSPAR ACID	의원 왕의 1988 왕의
	US	NICHEL NICHEL	30 76 30 76
•	AUSTRALIA	NICHEL	
	RWANDA	PYRETHRUM	26 32
1		FLUGRERHE ACID	18 69
		FLUDREPAR ACID	12.85
	ITALY	FLUORISPAR ADID	12 15
:	DOM, REPUB.	NIÜKEL	11.14
•	FINLAND	COBALT	10 80
	US	FLUORSFAR ACID	
·	AUSTRALIA	COBALT	6 6
7	INDONESIA	NICHEL	6.15
	PHILIPPINES	NICKEL	6 15
•	US	COBALT	6 02
5	USSR	NICHEL	6.01
1	THAILAND	FLUORSPAR ACID	5 97
	CAMADA	COBALT	5 86
-:		COBALT	5.40
\$	SOUTH AFRICA	NICHEL	4. 7ć
-		COBALT	4.62
4	UE	PYRETHPUM	4 21
7		COEALT	4, 18
-	145744 20115555	NICHEL	2, 97
<u>:</u>		COBALT	1 94
Ō		PYRETHRUM	1, 26
1		FYRETHRUM	1 22
	112211111	COBALT	0, 84
	FINLAND	NICKEL	0. 59
ت 4	· - · - ·	NICKEL	0.35
4	GREECE	NICHEL	0. 29
	YUGOSLAVIA	NICKEL	0.12
_	NETHERLANDS		0.06
7	FRG	NICKEL	0.00
	MALAYSIA	TIN	0.00
	PRC	TIN	0, 00
0	BRAZIL	TIN	0, 00 <b>0</b> , 00
١	BOLIVIA	TIN	
•	UK	TIN	0, 00
_	INDÓNESIA	TIN	0. 00
4	THAILAND	TIN	0. 00
j	US	TIN	0. 00
	AUSTRALIA	TIN	0. 00

SCENARIO 20

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                      Level of Conflict 3 Media 1
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   Figion
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   Laisht.
             10.0
                    10.0
                             7. 0
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   I/COEF 0.1786 0.1785 0.1250 0.0893 0.1250 0.0357 0.0357 0.0893 0.0357 0.117
                      Level of Conflict 3 Media 2
   Lijion
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   Regaon
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                                            7. 0
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                    10.0
                                    4 0
                                                                  8.0
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             10. Q
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   Weight
              9.0
   l sight
   1/100EF 0.1333 0.1333 0.1373 0.1200 0.0533 0.0933 0.0647 0.0133 0.1047 0.0933 0.14,7
   I COSF 0, 1200
                      Level of Conflict 3 Media 3
                             3
                                    4
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   Fraion
              1
   Weight
             10.0
                    10.0
                            19. 9
                                    8.0
                                            6.0
                                                   4. 0
   I/COEF 0.1786 0.1786 0.1786 0.1429 0.1071 0.0714 0.1429
                      Level of Conflict B Media 4
              1
                             3
   Region
Weight
                             2. 0
             10.0
                     4 (
                                    1. 0
   : COER 0.5801 0.2050 0 1176 0 0508
                 INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
                 or the Importance of Controlling EACH region within its own Medic
   Media
                                      4
                                             5
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                                                                    \Xi
   F gion
   3 COEF 0 0229 0 0229
                         0.0160
                                 0.0114 0.0160 0.0043 0.0045 0.0114 0.0045
   Media
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   Region
     rdia 11
     bion
   1/COEF 0.0171 0.0171 0.0154 0.0068 0.0119 0.0085 0.0017 0.0136 0.0119 0.0085
   IFCOEF 0.0154
   n dia
   Region
   <u>l/Coef 0.0228 0.0228 0 0228 0.0183 0.0187 0.0091 0.0183</u>
   Nodia
   Region
   I/COEF 0.0751 0.0301 0.0150 0.0075

    I portance of controlling ANY Region

   within its Media as compared to the Importance
   of controlling ANY Region of any other Media
   M dia
                              3
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   Region
   I/COEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0050 0.0020
   M dia
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   Region
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   Media 11
   Figion
   I.COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
   I/COEF 0.0033
   R gion
   1/COEF 0.0040 0.0040 0.0040 0.0048 0.0034 0.0024 0.0048
   Media
   Region
   I-COEF 0.0065 0.0026 0.0013 0.0007
```

# FORCE ELEMENT IMPORTANCE (LOC 3)

		A the full time of the		
	ELEMENT	FORCE ELEMENT (	CALCULATED	NORMALIZED
RANKING	NUMBER	NAME	VALUE	VALUE
i	17	CARFIER PATTLE GROUP	0 141	1Q, 000
2	1	AIR INTERDITION	0.117	. <b>8</b> 266
3	3	ARITY GROUND	0.104	7. 382
4	16	ATTACK SUBS	0.072	<b>5</b> 130
5	19	SURFACE COMBATANTS	0.060	
6	12	THEATER NUCLEAR WEARON	0. 054	3, 812
7	8	RAFID DEFLOY	O. <b>0</b> 52	3. <b>7</b> 04
8	Ŀ	CAB	0. 044	3.132
9	14	ASW(LAND BASED)	0.043	
10	21	AIR SUFERIURITY (LAND BA	BEID) 0.041	
11	15	ASW(SEA BASED)	G QBB	
12		AIR SUPERIORITY (SRIF BA		2, 278
13	21	Alr DEFENSE(SHIP BASED)	0. 029	2,065
14	10	STRATEGIC BOMBER	0.025	-
15	25	SPCE BABED WEAPON(AIR C	NTRL)0.020	1 416
1.6	29	ASAT(SPACE BASED)	0.013	Q 994
17	18	MINE WARFARE	0.013	C. 891
18	2	AMPHIBIQUS ASSAULT	0.011	0.757
19	13	SPECIAL OPERATIONS	0.010	C 725
20	28	ASAT(LAND BASED)	0.007	0, 510
21	20	AIR DEFENSE(LAND EASED)	0. 004	0, 278
22	9	SPOE-BASED WEAPON(LND C)	NTRL)0 003	0 212
_ 23	30	SPCE BASED WEAPON:SEA C	NTRL)0.002	0.118
24	27	ABM(SPACE BASED)	0.000	
25	26	ABM(LAND BASED)	0.000	0.000
26	24	INTERCEPTOR AIRLRAFT	0.000	0.000
27	11	SLBM	0. 000	0,000
28	7	ICBM	0, 000	0.000
29	5	CIVIL DEFENSE	0, 000	0,000
30	4	CBW	0, 000	0, 000

### COMMODITY IMPORTANCE (LOC 3)

#### COBALT

AIR INTERDICTION	5. 71
ARMY GROUND	4, 52
CAS	1. 75
ICBM	0.00
STRATEGIC BOMBER	1. 79
SLBM	Q. QQ
ASW(SEA BASED)	1. 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ASAT(LAND BASED)	0.51

34, 99

#### FLUGFSPAR ACID

AIR INTERDICTION	7 12
AMPHIBIOUS ASSAULT	0.76
ARMY GROUND	3, 69
CAR	2 05
ICEM	0.00
STRATEGIC BOMBER	1 79
SLBM	Q. QO
ASW(LAND BABED)	3 08
ABW(SEA BABED)	1 63
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 20
AIR SUPERIORITY(LAND BASED)	2 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	$\mathbb{Q}_{+}(\omega)$
APM(LAND BABED)	0, 00
	70 F7

#### FYRETHRUM

· · ·	
ARMY GROUND	고 4달
CIVIL DEFENSE	0.00
ASW(SEA BASED)	0.14
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4. 27
	17 08

#### COMMODITY NORMALIZED IMPORTANCE

NICHEL	10.00	(	41, 21)
TIN	୭.୭୬	(	41, 18)
FLUORSPAR ACID	9. 60	(	39, 57)
COBALT	≘ 49	(	34 99)
FYRETHRUM	4 14	(	17, 08)

#### TIN

AIR INTERLICTION	5.90
ARMY GROUND	1, 92
049	1 🖭
STRATEGIC BOMPER	1 79
ABW(LAND BASED)	3, 08
ABW(SEA BABEI)	1.11
ATTACK SUBS	5.13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	OF Earl
SURFACE COMBATANTS	4. 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ABM (LAND BASED)	$\Phi_{-}(n)$
	41 18

#### NICKEL

AIR INTERBICTION	5.60
ARMY GROUND	4 위표
CAE	1 72
STRATEGIC BOMBER	1. フラ
ASK(SEA BASED)	1,71
ATTACK SUBS	5 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	୦ ୫୨
SURFACE COMBATANTS	4 25
AIR SUPERIDRITY(LAND BASED)	2. 91
AIR SUPERIORITY(SHIP BASED)	2, 28
TERCEPTOR AIRCRAFT	0.00
	41 21

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COBALT
                                                    72 7334
            045
A-10
                                                    4⊜
                                                       48-71
COBRA
            CAS
                                                   103, 5050
            AIR INTERDICTION
                                                       2734
            CAS
                                                    71 8785
            AIR
                INTERDICTION
F-16
                                                    40, 4075
            CAS
                                                      3, 6367
ART. ACRET CAS
                                                       2345
RADIO RLAY AIR INTERDICTION
                                                      2, 7275
            CAS
                                                    129 3813
            AIR INTERDICTION
F-111
                                                     38, 8144
            AIR INTERDICTION
A-6
                                                     57 5028
F-15
            AIR INTERDICTION
                                                     51, 7525
A-7
            AIR INTERDICTION
                                                     43 1271
F-14
            AIR INTERDICTION
                                                     71, 8785
            AIR INTERDICTION
SH-3
            ABN(SEA BABED)
                                                      6 0775
                                                     15, 1937
SH-2
            ASW(SEA BASED)
                                                     23, 6344
            ASW(SEA BASED)
SH-60B
                                                     34. 7284
9-3
            ASW(SEA BASED)
                                                     24 1169
ATT.
     SUBS
            ASW(SEA BASED)
                                                     14 4701
            ASK(SEA BASED)
PRIGATES
                                                      8, 6821
DETROYERS
            ASW(SEA BASED)
                                                     37 9669
M-48
            ARMY GROUND
                                                     61,0182
            ARMY GROUND
M-60
                                                     とて、アラミの
            ARMY GROUND
M-1
                                                      0. 2260
M-551
            ARMY GROUND
                                                     54 2384
M-901
            ARMY GROUND
                                                     47. 4596
            ARMY GROUND
M-2/M-3
                                                      5.
                                                       2732
M-113
             ARMY GROUND
                                                     20, 3394
            ARMY GROUND
MLRS
                                                     27, 1192
TOWED ART.
            ARMY GROUND
                                                     36, 1589
SELF-PROF.
            ARMY GROUND
                                                     18,0795
             ARMY GROUND
PERSHING
                                                     30, 1324
             ARMY GROUND
GLOMS
                                                      7, 5331
INFANTRY
             ARMY GROUND
                                                     36, 9122
MORTERS
             ARMY GROUND
                                                      1,5820
ROLES LNOH ARMY GROUND
```

6216 5556 2402

NORMALIZED VALUES

7162

0000 7478 6681 3333

1921

FLAY ALFIFT SUBS SELF-PROP ART SH-2 FRIGATES DSTROYERS INFANTRY MLRS PERSHING MORTERS 309-HE RADIO M-2/M-GLCMS Fig. 1 Program COBRA F-15 M-901 M-43 ATT. F-16 A-10 09-W -14 A-7 F-4 9-9 9-9 9-V F-1.8

6842 3290 0961 0961 8640 8267 5721

93**45** 8530 7948

0000

1743 1184 6710 5824

46.77

TIN		
A-10	CAS	71 7334
goera	ÇAR	<u>04 ⊘5.1</u>
F-4	AIR INTERDICTION	103 5050
	CAS	7 2734
F-14	AIR INTERDICTION	71 8735
	CAE	40 4075
ART. ACRET		3 6367
RADIO RLAY	AIR INTERDICTION	3, 2345
	045	2 7275
F-111	AIR INTERDICTION	129 3813
A-E	AIR INTERPICTION	43 6661
F-15	AIR INTERDICTION	57, 5028
A-7	AIR INTERPOSTION	51, 7525
F-14	AIR INTERDICTION	48 5180
F-18	AIR INTERDICTION	80 8433
SH-3	ASW(SEA BASED)	5 2003
SH-2	ASW(SEA BASED)	13 0231
SH-60B	ASW(SEA BASEI)	20 25/2
S-3	ASW(SEA BASED)	34 7284
ATT. SUES	ASW(SEA BASED)	14 4701
FRIGATES	ASW(SEA BASED)	14.4701
DSTROYERS	ASW(SEA BASEI)	8 6821
M-4≅	ARM+ GROUND	4 2195
M-60	AFMY GROUNE	6 7798
M-1	ARMY GROUND	37 6655
M-551	ARMY GROUND	0.0753
M-901	ARMY GROUND	6. 7798
M-2/M-3	ARMY GROUND	6.7798 6.7798
M-113	ARMY GROUND	0.7533
MERS	ARMY GROUND	10. 1697
TOWED ART.		
SELE-PROF	ARMY GROUND	<b>4</b> , <b>51</b> 99 <b>6</b> , 0265
PERSHING	ARMY GROUND	
GLOMS	ARMY GROUND	15 8195
		26 3659
INFANTRY	ARMY GROUND	60. 254°
MORTERS	ARMY GROUND	5. 2732
HULES INCH	ARMY GROUND	0. 2260

																												0 017% 0 00%	
NORMALIZED VALUES	F-14	F-4	F-18	A-10	COPRA	INFANTRY	F-15	A-7	F-14	A-6	<b>1−</b> E	ტ+ <b>ტ</b>	GLCMS	3H-60E	PERCHING	7	7		⋛	7	M-901	- 1	RADIO RLAY	1.1	TOWED ART	-40	≅11-W	HUNT PURTH Market	

517 T 1 2 T 1		
NICKEL	• ^ -	
A-10	CAS	72 7315
<u>Cobea</u>	QA9	48 48 1
F -4	AIR INTERDICTION	77. <b>6</b> 255
	CAS	5. 4550
F-16	AIR INTERDICTION	71 8765
	0A3	40 ACT5
AFT. ACRET	CAS	2 4245
RADIO RLAY	AIR INTERDICTION	3 2345
	CAS CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRAC	2 7278
F-111	AIR INTERDICTION	129, 3819
A-6	AIR INTERDICTION	SP 8144
F-15	AIR INTERDICTION	57, 5028
A-7	AIR INTERDICTION	51 7525
F-14	AIR INTERDICTION	48 5180
F-18	AIR INTERDICTION	- 10 0100 10 8488
SH-3:	ASW SEA BASED)	6 9457
SH-2	ASW(SEA BASED)	17 3442
5-4-60P	ASW(SEA BASED)	27 016-
S-3	ASW(SEA BASED)	34 7284
	ASW(SEA BASED)	43 4104
	ASW(SEA BASED)	26 0463
	ASW(SEA BASED)	
M-48	ARMY GROUND	15 6178 42 1854
M-60	ARMY GROUND	
M+1	ARM: GROUND	67 7980 25 3511
h-551	APMY GROUND	75 3311
M-901	ARMY GROUND	0.7533
· · · · · ·		47, 4536
	ARMY GROUND	5실 골걸일인
M-113	ARMY GROUND	5 2732
MLRS	AEMY GROUND	20 3344
	ARMY GROUND	35, <b>1</b> 589
SELF-PROF		48 2119
PERSHING	ARMY GROUND	18, 0795
GLCMS	ARMY GROUND	22, 5993
	ARMY GROUND	37.6655
MORTERS	ARMY GROUND	15, 8195
ROLES LNOH	ARMY GROUND	0.2260

NORMALIZED VALUES

10, 0000	421	000	020	621	240	444	192	000	750	747	726	660	[]   -  -	260	9	911	704	6.64	037	013	746	572	260	्रक	(4 (4	207	>	1.7	407	<u>0</u>		: <u> </u> c
F-111 F-16	F-4	F-18	Z-I	A-10	M-6.0	F-15	M-2/M-3	A-7	F-14	COERA	SELF-PROP.	M-901	ATT, SUBS	M-40	A-4.	INFANTRY	THWED ART.	ტ ქ თ	SH~60B	FRIGATES	GLCMS	MLRS	PERSHING	SH-2	MORTERS	DOTROYERS	6-H6	RADIO RLAY	M-113	ART ACEFT	1:1:1	

FLUOFSPAR	ACID	
A-10	CAS	లు ల∶ాన
COBRH	CAS	45 45 .
F-4	AIR INTERDICTION	129 3813
	CAS	
F-16	ATE INTERILITION	EF 8481
	CAS	50 50°A
ART. ACRET	CAS	3 6367
RADIO RLAY	AIR INTERLICTION	9 2345
	C4E	9 2745 1 7275
F-111	AIR INTERDICTION	1:1 7246
A-6	AIR INTERDICTION	48 5180
F-15	AIR INTERDICTION	71 3795
Ĥ-7	AIR INTERDICTION	64 6506
F-14	AIR INTERDICTION	<b>5</b> 3 <b>9</b> 037
F-18	AIR INTERDICTION	85 8481
SH-3	ASW(SEA BASED)	6 9457
SH-2	ABW(BEA PARED)	17, 34,40
SH-60E	ASW(SEA BASEIO)	33 7637
S-3	ASW(SEA BASED)	43 4104
ATT. SUBS	ABW(SEA BABED)	<b>2</b> 8 9 <b>4</b> 03
FRIGATES	ASW(SEA BASED)	20 2582
DETROYERS	ABW(BE4 BABEI)	12 1549
M-48	ARMY GROUND	12, 6556
M-60	ARMY GROUND	20 3394
M-1	AFMY GROUND	22 5993
M-551	ARMY GROUND	0 2260
M-901	ARMY GROUND	54 2384
M-2/M-3	ARMY GROUND	54 2384
M-113	ARMY GROUND	6 0265
MLRS	ARMY GROUND	16 9495
TOWED ART	ARMY GROUND	22 5003
SELF-PROF.	ARMY GROUND	30 1324
PERSHING	ARMY GROUND	15, 8195
GLOMS	APMY GROUND	26 3559
INFANTRY	ARMY GROUND	60, 2649
MORTERS	ARMY GROUND	26, 3659
	ARMY GROUND	0. 2260
	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	And the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th

	8, 6787																												1. 22 and		
NORMAL TZEN VALLIES	 F-16	F-4	A-10	F-18	F-15	A-7	5	M-2/M-3	_	F-14	<b>カー</b> を	COBRA	-	(i)	177	GFCMS	TOWED ART.	α-1	<b>0</b> 9− <b>E</b>	FRIGATES	SH-2	MLRS	PERSHING	M-40	DSTROYERS	0.110	60	됩	ART, AFRET	Z	_

### PYPETHERM ATT SUBS

F11 = 2025	PATRICION DATE DE
M-4중	ARMY GROUND
M-60	ARMY GROUND
M-113	AS MY GROUND
TOWED ART.	ARMY GROWNE
SELF-PROP.	ARMY GEIZHID
INFANTRY	ARMY GROUND
MORTERS.	ASM C SECONDS

#### 14, 4701

29.	<b>5</b> 298
47	25.36
5	1732
31.	<b>6330</b>
42.	18:54
75	3311
G- 4	9122

#### NORMALIZED VALUES

INFAMTRY	10	00000
M-60	Ŀ.	3000
SELF-PROF	Ε,	4.000
MORTERS	4	9000
TOWED ART	4	2000
M-48	3.	9200
ATT SUES	1	9200
M-113	Q.	7000

```
ALL COMMODITIES
            CAS
A-10
                                                       0912
COPEA
            £4.3
                                                        1011
                                                        1402
F-4
            AIR INTERDICTION
            CAS
                                                        2000
F-16
            AIR INTERDICTION
                                                       0548
            C 4 E
                                                        フェンコ
ART. ACRET CAS
                                                        1333
RADIO RLAY AIR INTERDICTION
                                                       1294
            643
                                                     (_)
                                                       1091
F-111
            AIR INTERDICTION
                                                       4 7/9:77
4-6
            AIR INTERDICTION
                                                       6951
F-15
            AIR INTERDICTION
                                                        4430
                                                        1995
A-7
            AIR INTERDICTION
F-14
            AIR INTERDICTION
                                                        の40フ
F-19
            AIR INTERDIFTION
                                                        2345
                                                     0. 2513
SH-S
            ASW(SEA BASEL)
SH-2
            ASW(SEA BASED)
                                                       とこつ言
SHEZOR
            ASU(SEA BASED)
                                                      1. 0457
9-3
            ASW(SEA BASED)
                                                       4750
                                                      1, 254.1
ATT
     SUBS
            ASW(SEA BASED)
FRIGATES
            ASW(SEA BASED)
                                                      0.7524
                                                       4515
DISTROYERS
            ABWISEA BABED)
                                                     O
            ARMY GROUND
M-48
                                                        2656
            ARMY GROUND
M-60
                                                      2 0334
                                                      2, 0339
M-1
            ARMY GROUND
M-551
            ARMY GROUND
                                                      0.0128
M-901
            ARMY GROUND
                                                      1 6272
                                                      1.6272
M-2/M-3
            ARMY GROUNI
M-113
            ARMY GROUND
                                                      0.2260
                                                      0. 6780
MLRS
            ARMY GROUND
TOWED ART
            ARMY GROUND
                                                      1, 2204
SELF-PROP
            ARMY GROUND
                                                      1.6272
PERSHING
            ARMY GROUND
                                                      0. 6780
GLCMS
            ARMY GROUND
                                                      1. 0546
INFANTRY
            ARMY GROUND
                                                      2.4106
MORTERS
            ARMY GROUND
                                                      1, 2128
ROLES LNCH ARMY GROUND
                                                      0.0226
```

2194 2057 9180 9035 3681 2330 1447 8210 4570 0583 8824 6216 4444 3837 0000 60000 5000 5000 5000 5000 9592 6842 3014 2807 8213 6989 1 1 E 1 ರೆಯಯರು ಗಳಕ್ಕನನನನನನನನನನನನನ ನಿವವಿಸಿಸಿದ್ದ ನಿರ್ವಿತ್ಯಾತ್ಯ NORMALIZED VALUES MILES LINCH RLAY ACERT MLRS SH-2 DSTROYERS SUBS TOWED ART SELF-PROP FRIGATES PERSHING F-15 INFANTRY MORTERS M-2/M-3 M-901 S-3 3H-60B FADIO COERA SMOUS M-40 ATT. 09-W F-14 A-10

#### CRITICALITY OF SHORTFALL

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(L	En)		3	)

_		STOCK	SHORT		FE/		NORMALITED
<b>U</b>	65 AL	FILE	FALL	TFANE-	CMPDITY	CRUTIC-	FE
COMMODITY	(UNITE)	CUNITES	(	LATEI	IMF DRT.	ALITY	LRITIL ITA
COMPACT	85 4	43 8			용, <b>등</b> (소. 스	3418 1 0.0	— . О. О
TON NODEL		190 6 31 2		0 0 and d	10.0 10.0	4377.1	1
FLUORSPAR ACID	14 15 0	ଚ୍ଚିତ୍ରି ହିନ୍ତ		257 5		2744 3	₹¹ <i>'</i> 2
F#RETHRUM	E. Carlotte	O = O	-100 0	40의 안	4 1	1830 T	4 3

### composite importance (LG1 3)

#### COBALT

SOURCE FINLAND M.RDCCO BUTSWANNA SOUTH AFRICA Z 1RE Z.1MBIA PHILIPPINES A STRALIA NOW CALEDONIA CANADA		AMBUNT SUPPLIED 1350. 450. 250. 150. 9000. 50. 400. 250. 1100.	% OF TOTAL 7, 71 2 57 1 43 0 86 51 43 10, 00 0 29 2 29 1 43 6, 29 5, 71	COMPOSITE IMPURTANCE 1 92 1 50 0 71 1 19 1 92 0 71 0 92 0 92 2 89 2 56	1701 0 520 0 647 1,404 0 841 0,520 1 404 1,087 1 087 1 087 0,346 0,391	0.4701) 4.042 1.715 2.015 0.703 28.073 0.810 1.488 1.502 2.175 2.286
US	TOTAL:	1000. 	5. 71  100. 00	2.56	0.371	మ మరాట

### COMPOSITE IMPORTANCE (LOC 3)

#### TIN

•		AMOUNT	% OF	COMPOSITE		
S URCE		SUPPLIED	TOTAL	IMPURTANIE	1/01	%(1/LI)
AUSTRALIA		100.	0.15	Q 92	1 097	O. 161
បទ		16100	23, 82	2 56	O 391	ନ ମୁନ
T AILAND		5900.	<b>8</b> 73	0.92	1. 097	9 483
I DONESIA		5800.	8 58	0.92	1. QE7	9 322
) Up		100	0.15	1. 96	0.510	0.075
BOLIVIA		10300	15, 24	<b>୦</b> . ୨୫	1, 020	15 541
B AZIL		2400	3 55	0, 86	1.162	4, 125
PRC		3000	4 44	2 47	0.405	1 796
MALAYSIA		23900.	35 36	0.92	1 087	38.414
1	TOTAL	67600	100 00			

### COMPOSITE IMPORTANCE (LOC 3)

#### NICHEL

SLUFCE FINLAND SUUTH AFRICA FILIPFINES AUSTRALIA @TNADA U.S. GREECE METHERLANDS F.US YUGOSLAVIA UUSSR I.M. REPUE C.UATAMALA INDONESIA	AMOUNT SUMMUTED 1000 5000 5000 25000 15000 600 200 100 5000 1500 4000	% 05 TOTAL 0.33 1.64 1.21 28.21 0.07 0.03 0.14 4.03 1.64	COMPITITE IMPURTANCE 1.92 1.19 0.02 0.02 2.56 1.96 1.96 1.96 1.96 0.94 1.53 0.94	1201 0.520 0.841 1.087 1.087 0.342 0.361 0.510 0.510 0.510 1.041 0.456 1.087	1 351 1 757 5 707 1 074 11 311 0 087 0 087 1 740 0 871 1 750
1142-2142-2-4-1	 TOTAL: 304400	100 00			

COMPOSITE IMPORTANCE (LOC 2)

#### FLUORSPAR ACID

. SOURCE - 9 DTH AFFICA

E ST AFRICA THAILAND MIXICO

ITALY AIN

	AMOUNT SUPPLIED 180 70. 45. 100. 25. 15. 350.	% OF TOTAL 22 36 8. 70 8. 07 12. 42 3. 11 1. 86 43 48	COMPOSITE IMPORTANCE 1 19 2 56 1 96 1 96 0 71 0 92 2 56	1/01 0 841 0 881 0 510 0 510 1 404 1 087 0 381	%(1/01) 1. 80: 2. 402 4.120 6.333 4.05% 2.025 17.011
TOTAL:	805.	100,00			

COMPOSITE IMPORTANCE (LOC 3)

#### PYRETHRUM

S URCE SOUTH AFRICA AMSTRALIA U MLNYA RWANDA 1 NZANIA		AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000.	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 39, 49	COMPOSITE IMPORTANCE 1. 19 0. 92 1. 96 0. 71 0. 71 0. 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01) 0 852 0 815 2 842 56,855 17,767 55,433
* .	TOTAL:	197500.	100 00			

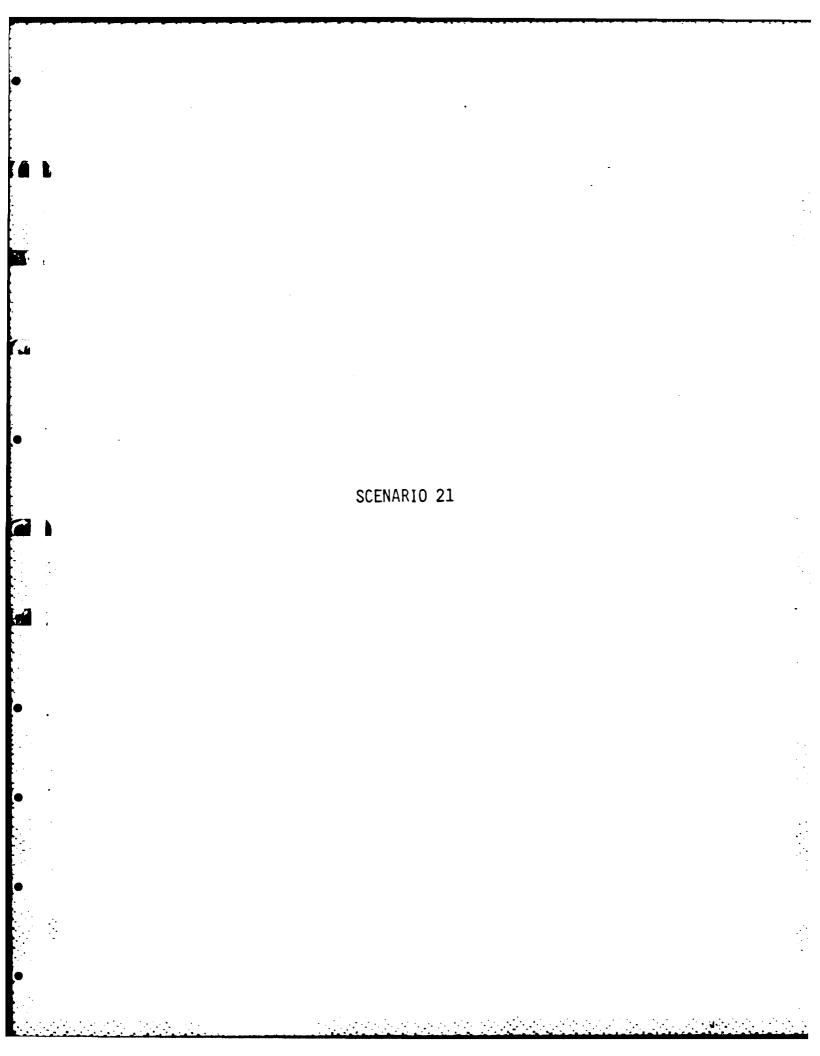
# SOURCE IMPORTANCE (LOC 3)

SOURCE	%(1/CI) COMP IMP	FEVEHORTFALL CRITICALITY		NIRMALITET TO 100
FINLAND MOROCCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CA: ADA U S	4 012 1 715 2 005 0 701 26 740 28 071 0 910 2 483 1 552 2 175 2 236	7.81 7.81 7.81 7.81 7.81 7.81 7.81 7.81	31, 33 13, 40 15, 66 5, 63 203, 86 219, 22 2, 42 19, 39 12, 12 16, 55 17, 46	5, 49 6, 41 2, 30 50 50 89, 74 0, 96 7, 94 4, 96 4, 97
T N AUSTRALIA U S THAILAND INDONESIA UN FOLIVIA FRAZIL ERC MALAYSIA	0 161 9 315 9 466 9 522 0 075 15 546 4 125 1 796 66 414	0, 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	6 65 0 60 6 60 6 60 0 00
NICKEL FINLAND SOUTH AFRICA FHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRS YUGOSLAVIA USSR DOM REPUB: GUATAMALA INDONESIA	0. 171 1 381 1. 785 8. 924 17. 054 11 311 0. 101 0. 034 0. 017 0. 084 1. 742 3. 280 0. 861 1. 785	10 00 10 00	1, 71 13, 91 17, 85 89, 24 170, 54 113, 11 1, 01 0, 17 0, 84 17, 42 32, 30 8, 61 17, 85	7.31 36.53 69.81 42.30 <b>0.14</b> 0.07 0.34 7.13 13.23 3.53
F JORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 95, 24 54, 22 37, 29 17, 32 145, 52	11, 91 14, 43 22, 19 15, 26 7, 09
PYRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA FWANDA TANZANIA	0, 852 0 825 2, 842 56, 855 17 767 55 433	4 30 4 30 4 30 4 30 4 30 4 30	3 66 3 55 12 21 244 29 76 34 238 18	1, 45 5, 00 100, 00 31, 25

Kins

#### SOUFIE IMPORTANCE RANGED BY SOURCE (LOC 2)

#	SOURCE	COMMODITY	VALUE
	KENYA	FYRETHFUM	
	TANZANIA	FYRETHRUM	97 50
3	ZAMBIA	COBALT	85.74
4	ZAIRE	COBALT	මත මින්
	CANADA	NICHEL	69. 81
_	SOUTH AFRICA	FLUORSPAR	
7	MEXICO	FLUORIBEAR	
	u s	NICKEL	46 30
	AUSTRALIA	NICKEL	
77.10	RWANDA	PYRETHRUM	36, <b>5</b> 3
<b>M</b> 11	SPAIN	FLUORSFAR	
ī	EAST AFRICA		
	ITALY	FLUORISPAR	
	DOM. REPUB	FLUORSPAR	
		NICKEL	13, 22
1	FINLAND	COBALT	12.82
1'	U S	FLUORSPAF	ACID 11, 91
	AUSTRALIA	COBALT	7. 94
1.	INDONESIA	NICKEL	7, 31
1	PHILIPPINES	NICHEL	7. 71
20	US	COBALT	7. 15
21	USSR	NICHEL	7.13
2 2h	THAILAND	FLUORSPAR	
<b>-</b> 25	CANADA	COBALT	6.95
24	BOTSWANNA	COBALT	6.41
2	SOUTH AFRICA	NICKEL	5 45 5 45
<u>∓</u>	Morocco	COBALT	5.48
	UK:	FYRETHRUM	
	NEW CALEDONIA	COBALT	5.00
<b>4</b> 28	GUATAMALA	NICKEL	4. 2살
30	SOUTH AFRICA		9. <b>5</b> 3
31	SOUTH AFRICA	COBALT	2.30
	AUSTRALIA	FYRETHRUM	1. 50
· <b>-</b> '		PYRETHRUM	1. 45
3.	PHILIPPINES	COBALT	0.99
34	FINLAND	NICKEL	0. 70
31	GREECE	NICKEL	0.41
3.	YUGOSLAVIA	NICKEL	0.34
37	NETHERLANDS	NICKEL	Ö. 14
35	FRG	NICKEL	0. 07
34	MALAYSIA	TIN	0. 00
46	PRC	TIN	0.00
41	PRAZIL	TIN	0.00
4.	BOLIVIA	TIN	0.00
4	UK	TIN	0. 00
44	INDONESIA	TIN	0.00
4-	THAILAND	TIN	0. 00
40	บร	TIN	
47	AUSTRALIA	TIN	0 00
	TO SECURITION OF THE SECOND	1 7 14	0 00



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WEIGHTS on REGISON by LEVEL of COMPLICT and MEDIA
                    Level of Conflict 3 Media 1
R mich
           1
                   7
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                                                 1.
                          -, 0
                                          7 0
Williamit
           10.0
                  10.0
                                  5.0
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                                                         2.0
                                                                5.0
                                                                        2 3
                                                                               <u>/_</u>
 I/COBF 0 1784 0.1784 0 1250 0.0893 0.1250 0.0357 0.0357 0.0893 0.0357 0 1071
                    Level of Conflict 3 Media 2
F. Doing
           1
                                  4
                                                                 3
                                                                        Φ
Region
          11
Wedght
          10.0
                  10.0
                         9.0
                                  4.0
                                          7. O
                                                1 5. O
                                                                8.0
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                                                         1. 0
           9. 0
Wight
 I CDEF 0.1333 0.1333 0.1333 0.1200 0.0533 0.0933 0.0667 0.0133 0.1067 0.0933 0.0657
1700EF 0.1200
                    Level of Conflict 3 Media 3
R gion
           1
                           3:
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Wellshit
                  10.0
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                         10.0
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INCORF 0 1786 0 1786 0 1789 0 1429 0 1071 0 0714 0 1429
                    Level of Conflict 3 Media 4
                   2
≱Region
                          3
           1
                   4.0
                           2.0
Weight.
          10.0
                                  1. O
I. COEF 0 5882 0.2353 0.1176 0.0588
               INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
               or the Importance of Controlling EACH region within its own Media
Media 1
5. gron
                    2
                            3
                                   4
                                           Ξ
                                                   Ŀ.
                                                          7
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                                                                         Ç.
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I JOEF 0.0228 0 0228 0.0160 0.0114 0.0150 0 0046 0 0046 0 0114 0.0046 0 012
Media 2
ក៏ក្រាប់ក
                                   4
             1
                            Ξ
                                           5
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Mesia 11
    105
 7.5199
IZCOSE 0.0171 0.0171 0.0154 0.0048 0.0119 0.0085 0.0017 0.0134 0.0119 0.0085
 I 10EF 0 0154
M dia
Region
 1400EF 0 0228 0 0228 0 0228 0 0183 0 0187 0 0081 0 0188 M Haia 4
Region
I/COEF 0 0752 0 0301 0,0150 0,0075
Importance of controlling ANY Region
within its Media as compared to the Importance
 of controlling ANY Region of any other Media
M dia 1
Region
                    2
                            3
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 I/COEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0050 0.0020
M. dia
Region
             1
                    2
                            3
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Media 11
R gion
I COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
 I/COEF 0.0033
 R gion
 1/00EF 0.0060 0.0060 0.0060 0.0048 0.0036 0.0024 0.0048
 Media 4
Rigion
9 I/DOEF 0. 0045 0. 0026 0. 0013 0. 0007
```

## FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	FORCE ELEMENT CA	ALCULATED I	NORMALIZZI
RANKING			VALUE	VALUE
1	17		0 141	10.000
2	1	AIR INTERLICTION	0.417	<b>8</b> 2≥.
3	3	ARM : GRIDING	0.104	. 7. 3E1
4	16	ATTACH SUPS -	0.072	5 137
5	19	SURFACE COMBATANTS	O. Q&Q	4. 24°
Ę.	12	THEATER NUCLEAR WEARLY	0 054	3,811
7	8	RASID DEPLOY	0.052	3, 701
8:	Ŀ	049	0 044	
9	14	ASW(LAND BASED)	0.043	
10	22	AIR SUPERIORITY(LAND DALE	ID) 0 041	
11		ASW(SEA BASED)	0.033	2, 315
12		AIR SUPERIUPITY (SHIP BASE	ID) O. CBI	2 2 4 2 065
13	21	AIR DEFENSE(SHIP BASED)		2 065
14		STRATEGIC BOMBER	• • •	
15	25	SPOE BASED WEAPONMAIR ONT		
16	29	ASAT(SPACE BASED) MINE WARFARE	0.013	0 514
17	18	MINE WARFARE	0.013	
18	2	AMPHIBIOUS ASSAULT		
19	13	SPECIAL OPERATIONS	0.010	
20	28	ASAT(LAND BASED)	Q. QD7	
21	20	AIR DEFENSE(LAND BABED)		
22	9	SPOE-MASED WEARON(LND CN)		
23	30	SPCE BASED WEAPON(SEA CN)		
24	27	ABM(SPACE BASED)		-
25	26	ABM(LAND BASED)	0.000	
26	24	INTERCEPTOR AIRCRAFT	0.000	
27	11	SLBM	0. 000	
28	7	ICBM	0, 000	
29	5	CIVIL DEFENSE	0.000	
30	4	CEW	0, 000	0,000

CONTRACTOR OF THE TANDER OF A SIDE

### Consultif Infortance (LOC 3)

#### COBALT

AIR INTERPICTION	5, 71
ARMY GROUND	4, 52
CAS	1 75
1CBM	$\mathbb{Q}(-\mathbb{Q})_{+}$
STRATEGIC BOMBER	1.79
SLBM	0.00
ASW(SEA BASED)	1 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2 91
AIR SUPERIORITY(SHIE BASEI)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ASAT (LAND BASED)	0.01
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#### TIN

ASW(SEA BASED) ATTACH SUBS CARRIER BATTLE GROUP MINE WARFARE	1, 11 5 13 10, 00 0, 89
SUFFACE COMPATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT ABM(LAND BASED)	0.00 0.00 

#### NICHEL

AIR INTERDICTION	5, 60
ARMY GROUND	4. 92
CAS	1. 72
STRATEGIC BOMBER	1. 79
ABW(SEA BABED)	1.71
ATTACK SUBS	5. 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	0, 89
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	<b>O</b> . <b>O</b> O
	41, 21

#### FLUORSPAR ACID

AIR INTERDICTION AMPHIBIOUS ASSAULT	7 13 0 <b>7</b> 4
AFMY GROUND	3 6 °
CAB	I 05
ICBM	$Q = Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot $
STRATEGIC BOMBER	1.75
SLBM	0.00
ABW(LAND BABED)	3, 00
ASW(SEA RASED)	1 1
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4 IS
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED.	2 29
INTERCEPTOR AIRCRAFT	0.00
ABM(LAND BASED)	0 00
	39 57

#### PYRETHRUM

	~
ARMY GROUND	2 48
CIVIL DEFENSE	0.00
ASW(SEA BASED)	0.14
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4 25
	17 09

#### COMMODITY NORMALIZED IMPOSTANCE

NICKEL	10.00	(	41, 21)
TIN	ବ ବଳ	(	41, 18)
FLUORSPAR ACID	9, 60	(	39, 57)
CORALT	8, 49	(	34, 99)
EYRETHRUM	4 14	(	17 081

```
COBALT
A-10
            CAE
                                                    72. 7236
COBRA
            645
                                                    48 48:1
F-4
            AIR INTERDICTION
                                                   103, 5050
            625
                                                       27:4
F-16
            AIR INTERDICTION
                                                    71 8785
            CAS
                                                    40, 4075
     ACRET CAS
AF.T.
                                                     3, 6367
RADIO RLAY AIR INTERDICTION
                                                       2045
            CAS
                                                     2.
                                                       7275
F-111
            AIR INTERDICTION
                                                   129 3813
4-6
            AIR INTERDICTION
                                                    38 8144
F-15
            AIR INTERDICTION
                                                       5028
6-7
            AIR INTERDICTION
                                                    51, 7525
F-14
            AIR INTERDICTION
                                                    49 1271
F-18
            AIR INTERDICTION
                                                    71 8785
SH-3
            ASW(SEA BASED)
                                                     6 0775
5H-2
            ASW(SEA BASED)
                                                    15 1937
SH-60B
            ASW(SEA BASED)
                                                    23, 6344
5-3
            ABW(SEA BASEL)
                                                    34 7284
ATT. SUBS
            ASW(SEA BASED)
                                                    24, 1169
FRIGATES
            ASW(SEA BASED)
                                                    14, 4701
DETROYERS
            ASW(SEA BASED)
                                                     8,6811
M-48
            ARMY GROUND
                                                    37, 9669
M-60
            ARMY GROUND
                                                    61 0192
M-1
            ARMY GROUND
                                                    67. 7990
M-551
            ARMY GROUND
                                                     0. 2260
M-901
            ARMY GROUND
                                                    54, 2384
M-2/M-3
            ARMY GROUND
                                                    47 4586
M-113
            ARMY GROUND
                                                     5, 2732
MLRS
            ARMY GROUND
                                                    20, 3394
            ARMY GROUND
TOWED ART.
                                                    27, 1192
SELF-PROP.
            ARMY GROUND
                                                    36, 1589
PERSHING
            ARMY GROUND
                                                    18, 0795
GLOME
            ARMY GROUND
                                                    30 1324
INFANTRY
            ARMY GROUND
                                                     7, 5331
MORTERS
            ARMY GROUND
                                                    36, 9122
ROLES LNOH ARMY GROUND
                                                     1, 5820
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ZEN VA																	<u>م</u>			<b>⊢</b> .	g						(O			ΑY	⊢: ⊑	I -	
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S	1	7-1	F-4	7	1	1	ı	- 1	M-90	ı	$\circ$	- 1	-	- 1	- 1	$\Box$	ш	- 1	GLCM	$\Box$	-	9H-40	_	لنا	I	œ	(ii)	Z	I	FAD	 ART.	ÎΣ	

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TIN
A-10
            CAS
                                                      72, 7334
            CAS
                                                      64 6501
COBRA
                                                     103 5050
            AIR INTERDICTION
F-4
                                                       7
                                                          2734
            CAS
                                                      71 8785
            AIR
                 INTERDICTION
F-16
                                                      40 4075
            CAE
     ACRET CAR
                                                       3. 6347
AFT.
                                                       3, 2343
RADIO RLAY AIR INTERDICTION
            CAS
                                                         7275
                                                     129, 3813
43,6662
            AIR INTERLICTION AIR INTERDICTION
F-111
A-6
                                                      57
                                                         5028
F-15
            AIR INTERDICTION
                                                          7525
A-7
            AIR INTERBICTION
                                                      48 5180
F-14
            AIR INTERDICTION
                                                      80, 8633
F-18
            AIR INTERDICTION
SH-3
                                                       5
                                                         2093
            ASW(SEA BASED)
                                                      13,0231
            ASW(SEA BASED)
SH-2
                                                      20. 25sî
            ASW(SEA BASED)
SH-60B
                                                      34, 7284
            ASW(SEA BASED)
9 + 3
                                                      14 4701
ATT. SUBS
            ASW(SEA BASED)
FRIGATES
            ASW(SEA BASED)
                                                      14, 4701
DSTROYERS
                                                       8, 6821
            ASW(SEA BASED)
             ARMY GROUND
                                                       4, 2185
M-48
M-60
            ARMY GROUND
                                                       6. 7798
M-1
             ARMY GROUND
                                                         6655
                                                       o. 0753
M - 551
            ARMY GROUND
                                                        6 7798
M-901
             ARMY GROUND

 7798

M-2/M-3
             ARMY GROUND
                                                       0.7533
M-113
             ARMY GROUND
             ARMY GROUND
                                                       10. 1697
MLRE
                                                        4, 5199
TOWED ART.
             ARMY GROUND
             ARMY GROUND
                                                       6 0265
SELF-PROF.
                                                       15, 8195
PERSHING
             ARMY GROUND
GLOMS
             ARMY GROUND
                                                      26, 3659
                                                      60, 2649
5, 2772
             ARMY GROUND
INFANTRY
MORTERS
             ARMY GROUND
                                                        0. 2260
ROLES LNCH ARMY GROUND
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6710 5240 5240 5240 4658 4658 4076 4026 3493 3261 9112 6842 0378 5658 2227 1184 0066 7860 4444 7500 3750 6216 9970 6579 6787 5622 2500 ರಯಯನಗಳಿಕಿಕಿಕಿಂದ್ರಗಳಲ್ಲಿ ಸಿಸಿಕಿಸಿಕಿಕಿಂದ್ರಿ ನಿರ್ಧಾ NORMALIZED VALUES LNOH PI-PFT RADIO RLAY DSTROYERS M-2/M-3 ART SUBS SELF-PROP COERA Infantry PERSHING FRIGATES MORTERO M-2/M-3 M-901 3H-60B LOMED ART. GLCMS M-40 MLRS 09-W 0H-0 9H-2 A-10 F-14 ATT. F-13 A-6 I-F

NICHEL		
A-10	DAS	72, 7336
COBRA	CAS	45 48 1
F-4	AIR INTERLICTION	77. <b>62</b> 98
	CAB	5, 4550
F-15	AIR INTERDICTION	71 8785
	CAS	40, 4075
ART. ACRET	CAS	2, 4245
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2, 7275
F-111	AIR INTERDICTION	129, 9913
A-6	AIR INTERDICTION	38, 8144
F-15	AIR INTERDICTION	57, 5028
A-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	48, 5180
F-18	AIR INTERDICTION	80, 8433
5H-3	ASW(SEA BASED)	6, 9457
SH-2	ASW(SEA BASED)	17, 3642
8H-60B	ABW(BEA BABED)	27, 0109
S-3	ASW(SEA BASED)	34, 7284
ATT. SUBS	ASW(SEA BASED)	43, 4104
FRIGATES	ASW(SEA BASED)	26, 0463
DSTROYERS	ASW(SEA BASED)	15, 6278
M-48	ARMY GROUND	42 1854
M-60	ARMY GROUND	<b>67. 7980</b>
M-1	ARMY GROUND	75, 3311
M-551	ARMY GROUND	0, 7533
M-901	ARMY GROUND	47, 4586
M-2/M-3	ARMY GROUND	54, 2394
M-113	ARMY GROUND	5, 2732
MERS	ARMY GROUNI	20, 3354
TOWED ART.	ARMY GROUND	36, 1589
SELF-PROP.	ARMY GROUND	48, 2119
PERSHING	ARMY GROUND	18, 0795
GLCMS	ARMY GROUND	<b>22. 599</b> 3
INFANTEY	AFM: GROUND	37, 6655
MORTERS	ARMY GRUUNI	15, 8195
ROLES LNOH	ARMY GROUND	0. 2260

NORMALIZED VALUES

6842 0877 5721 3974 3421 2227 2070 0000 7500 **74**78 7263 6681 3552 2605 0000 7948 7467 5368 4608 4076 0131 0, 1974 10 0000 8, 6787 4216 2500 8224 6224 2402 4444 1921 RADIO RLAY ART ACRET DETRUYERS SELF-PROP. ATT, SUBS TOWED ART. SH-60B FRIGATES GLCMS MLRS PERSHING INFANTRY SH-2 MURTERS M-2/M-3 M-113 11-2-11 COBRA F-111 M-901 ... H.√ M-48 M-40 F-18 F-14 A-10 B-15 F-16 ტ ტ-დ A-7 4-4 분

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FLUORSPAR ACID
                                                    90 9170
A-10
            CAS
                                                    4: 4: 1
COPRA
            CAS
            AIR INTERLICTION
                                                   120
                                                       3313
            CAS
                                                     9, 0917
F-16
            AIR INTERDICTION
                                                    연위, 8461
            CAE
                                                    50 5094
ART, ACRET CAS
                                                       6367
RADIO RLAY AIR INTERDICTION
                                                       2345
            CAS
                                                     2. 7275
F-111
            AIR
                INTERPICTION
                                                       7266
                                                   161
            AIR INTERDICTION
                                                    49, 5180
4-6
F-15
            AIR INTERBICTION
                                                    71. 8735
A-7
            AIR INTERDICTION
                                                    64, 6906
                                                    53, 908°
F-14
            AIR INTERBICTION
            AIR INTERDICTION
                                                    89, 8491
F-18
                                                     6. 9457
            ASW(SEA BASEL)
SH-3
                                                    17. 3642
SH-2
            ASW(SEA BASED)
SHHAOD
            ASW(SEA BASED)
                                                    33 7637
9-3
            ASW(SEA BASED)
                                                    43, 4104
                                                    28 9403
            ASW(SEA BASED)
ATT.
     SUBS
                                                    20, 2582
FRIGATES
            ASW(SEA BASED)
                                                    12, 1549
            ASW(SEA BASED)
DSTROYERS
                                                    12, 6556
M-48
            ARMY GROUND
                                                    20, 3394
M-60
            ARMY GROUND
                                                    22, 5993
            ARMY GROUND
M-1
M-551
                                                     0.2250
            ARMY GROUND
                                                    54 2384
M-901
            ARMY GROUND
                                                    54, 2384
M-2/M-3
            ARMY GROUND
M=113
            ARMY GROUND
                                                     6. 0265
                                                       G 4 2 1.
            ARMY GROUND
MLRE
                                                     16
                                                     22, 5993
TOWED ART.
            ARMY GROUND
                                                     30 1324
SELF-PROF.
            ARMY GROUND
                                                     15, 8195
PERSHING
            ARMY GROUND
                                                     26, 3659
GLOMS
            ARMY GROUND
                                                     60, 2649
INFANTRY
            ARMY GROUND
                                                     26. 365°
MORTERS
            ARMY GROUND
                                                      0.2260
ROLES LNOH ARMY GROUND
```

H

1.

8632 7895 6303 6303 3974 3974 2576 2526 0737 0480 9782 7825 7516 4205 6842 0877 0000 7263 3537 3537 3333 2306 4444 44446666666 ರ್ಯಯಗಳಿಕಕ್ಷಣ್ಯಯಯಯನನನೆಗಳಗಳ NORMALIZED VALUES RADITU FLAY AC FFT GLEMS TOWED ART. DSTROYERS ATT, SUBS SELF-PROP PERSHING RIGATES INFANTRY MORTERS 1-2/M-3 SH-60B A-6 COBRA 106-M 1-40 H-2 MLRS M-60 F-111 7-14 A-10 F-13 F-16 97 9

FYRETHRUM	
ATT, SUBS	ASW(SEA BASED)
M-48	ARMY GROUND
M-60	ARM - GROUND
M-113	ARMY GROWNE
TOWED ART.	ARMY GROUND
SELF-PROP.	ARMY GROUND
INFANTRY	ARMY GROUND
MORTERS	ARMY GROUND

14.	4701
2/15	52 × 8
27.	4536
5	2732
31.	6390
42	1804
75.	2311
3.6	9112

# NORMALIZED VALUES

INFANTRY	10,0000
M-60	<b>6</b> 3000
SELF-PROP.	<b>5. 6</b> 000
MORTERS	4 9000
TOWED ART.	4 2000
M-48	3, 9200
ATT. SUPS	1, 9209
M=119	o <b>7</b> 000

```
ALL COMMODITIES
A-10
            049
                                                     3.0912
COBRA
            CAS
                                                      2, 1012
F-4
                                                      4 14:2
            AIR INTERDICTION
                                                       1::
            CAE
                                                     Ó
F-16
            AIR INTERDICTION
                                                      3
                                                       0548
            CAE
                                                       7173
                                                      1
AFT
     ACRET
           CAE
                                                        1333
RADIO REAY AIR INTERLICTION
                                                       1284
                                                     Ú.
            CAS
                                                     0.1091
F-111
            AIR INTERDICTION
                                                     5, 4987
A-6
            AIR INTERDICTION
                                                      1.6981
F-15
            AIR INTERDICTION
                                                      2, 4439
A-7
            AIR INTERDICTION
                                                     2, 1995
F-14
            AIR INTERPICTION
                                                      1.9407
F-18
            AIR INTERDICTION
                                                     3, 2345
SH-3
            ASW(SEA BASED)
                                                     0. 2518
SH-2
            ASW(SEA BASED)
                                                      0. 6295
SH-60E
            ASW(SEA BASED)
                                                      1.0467
8-3
            ABW(SEA BASED)
                                                      1.4760
ATT.
    SUBS
            ASW(SEA BASED)
                                                      1 2541
FRIGATES
            ASW(SEA BASED)
                                                     0.7524
DISTROYERS
            ASW(SEA BASED)
                                                     0 4515
M-48
            ARMY GROUND
                                                     1, 2656
                                                     2 0339
2. 0339
            ARMY GROUND
M-60
M-1
            ARMY GROUND
M-551
            ARMY GROUND
                                                     0.0128
M-901
            ARMY GROUND
                                                      1.6272
                                                      1.6272
M-2/M-3
            ARMY GROUND
M-113
            ARMY GROUND
                                                      0. 2260
MLRG
            ARMY GROUND
                                                      0. 4780
TOWED ART.
            ARMY GROUND
                                                        2204
SELF-PROF.
            ARMY GROUND
                                                      1. 6272
PERSHING
            ARMY GROUND
                                                      0. 6780
GLOME
            ARMY GROUND
                                                      1.0546
INFANTRY
            ARMY GROUND
                                                      2.4106
MORTERS:
            ARMY GRUUND
                                                      1 2108
ROLES ENCH ARMY GROUND
                                                      0.0226
```

00000 6787 0585 6824 6216 4444 3839

INFANTRY

A-10 F-15

F-18

F-16

F-4

COERA

Ψ

A-7

F-14

9-6

09-W

NORMALIZED VALUES F-111

)

6842 3016

ATT, SUBS TOWED ART.

9-9 M-48 ATT. MORTERS

SELF-PROP. M-2/M-3 M-901 2807 2194 2057 2057 9035 3664 2330 1447

ES LNCH

ACRET

AFT

FLAY

RADIO

01-H3

MLRS SH-2 DSTROYERS

FRIGATES PERSHING

9H-60B

SHOUS

# CRITICALITY OF SHORTFALL

ALL	FΕ	Ξ.
(LDE	· 3·	`

	5700	हुं ⊣ुन क्		FE		NIF FLIT
GOAL	FILE	FALL	TRANS-	CMDDITTY	CRITIC-	FE HAFTAL
			LATED	IMPORT.	ALITY	1F17114_17;
85 4	43.8	-43 7	402 5	왕 5	3418 1	<u> </u>
42 0	190 6	353.8	. 0.0	10.0	$\Theta \circ \Theta$	$C_{i} = C_{i}$
200 0	32 2	-83 F	437 7	10.0	4377.1	<b>1</b> <b>4</b> · · · · · ·
1400.0	895. 0	-36.1	387. 7	9 6	3744 3	÷ ć
500.0	0.0	-100. O	453 8	4 1	1886 7	<u>.</u>

COMPOSITE IMPORTANCE (LOC 3)

# COBALT

COMMODITY

NICKEL LUGRSPAR ACID

OBALT TIN

. YEETHRUM

DURCE ! INLAND MOROCCO DTSWANNA	AMOUNT SUPPLIED 1350. 450 250 150	% OF TOTAL 6.43 2.14 1.19 0.71	COMPOSITE IMPURTANCE 1.92 1.50 0.71 1.19	1/01 0.520 0.667 1.404 0.841	101001 2 341 1 420 1 671 1 6 1
JTH AFFICA ZAIRE	12500.	59 52	1, 92	0 520	35 754 0 IV
FHILIPPINES DETRALIA	50 400.	0, 24 1, 90	0, 92 0, 92 0, 93	1.097 1.097	2 973 1 1:3
MEW CALEDONIA CANADA	250. <b>110</b> 0.	1, 19 5, 24	0, 92 2, 89	1, 087 0, 346	1 213 1 813 9 1
1, 5	4500. 	21.49	2.51	O. 391	<b>2</b> - 2 · · ·

TOTAL: 21000. 100.00

# COMPOSITE IMPORTANCE (LOC 3)

# TIN

		AMOUNT	% OF	COMPOSITE		
: URCE		SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/CI)
AUSTRALIA		100.	0.15	0. 92	1. 087	0.161
v s		16100.	23, 82	2, 56	0.391	위, 31위
THAILAND		5900.	8, 73	0. 92	1.087	9. 483
INDONESIA		5800.	8, 58	0. 92	1.087	9 322
UF		100.	0.15	1. 96	0. 510	0.075
ILIVIA		10300.	15, 24	0. 98	1. 020	15, 543
I AZIL		2400.	3, 55	0. <b>ይ</b> ሪ	1. 162	4, 125
PRC		3000.	4.44	2. 47	0. 405	1 <b>7</b> 96
1 LAYSIA		23900.	35, 34	O. 52	1. 087	38 414
	TOTAL	<b>676</b> 00.	100.00			

# COMPOSITE IMPORTANCE (LOC 3)

### NICHEL

· <b>D</b> : . : . :	AMILUM BURFLIEI	% CF TGTAL	COMPLIATE  IMPLETHNIE	175 T	•
FINLAND	1 : 1 : 1:2	0.33	1 92	o 520	
SOUTH AFRICA	<b>5</b> 0000	1 64	1 1 🕏	0.841	1 1::
HILIFFINES	5.55.	1 64	Ģ <b>4</b> ( <u>2</u>	1. OE7	
J:TFALIA	2501 ju	9 21	Ģ ⊝II	1 OEF	
, CANADA	150010	47 []	2 87	0 341	<u> </u>
<b>I ■</b> §	88000	28 91	2 5c	$\mathbb{Q} \in \mathbb{R} \otimes 1$	11 711
KEE©E	60 €	1 20	1 51	O Tip	0.111
NETHEFLANDS	200	G 07	1 ⊕⊙	0.510	$C_{p} = C_{p} = \frac{p_{p}^{2}}{2} \left( -\frac{p_{p}^{2}}{2} \right)$
FF €	1 (1)	$C \in C(\mathbb{C})$	1 72	C 517	-
1 011 <u>L</u> A. <b>1</b> A	English -	0.42	1 56	0.510	Ů k:→
, bigh	<b>5</b> 000	1 64	Q 94	1 041	1 -11
* I M REPUL	15000	4 = .	1 53	O after	·
) DATAMALA	<b>4</b> 000	1 31	1.53	0 650	0 811
INDINESIA	<b>5</b> 000	1 44	Q 52	1 097	1 785
	T072: 204400	100.00			

TOTAL: 304400 100 00

COMPOSITE IMPORTANCE (LOC 1)

# FLUGBSPAR ACID

SOURCE SOURCE SOURH AFRICA ( S ITALY		AMOUNT SUPPLIED 180 70. 45	% OF TOTAL 22 36 8 70 8 07	COMPOSITE IMPORTANCE 1.19 2.56 1.94	1/CI 0 841 0 891 0 510	%(1/CI) 18 801 8 402 4 100
SEAIN MET AFRICA THAILAND MEXICO		100. 25. 15. 350	12 42 3 11 1 86 43 49	1, 96 0, 71 0, 92 2, 56	0.510 1.404 1.087 0.361	0 938 4 957 2 025 17 011
• ,	TOTAL:	805	100 00			

COMPOSITE IMPORTANCE (LOC 3)

# FYRETHRUM

SGURCE SGUTH AFRICA AUSTRALIA UK KONYA RWANDA TANZANIA	AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 33, 49	COMPOSITE IMPORTANCE 1. 19 0. 92 1. 96 0. 71 0. 71 0. 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01/ 0,852 0,825 2,842 56,805 17,767 55,423
2			V / •	A. HUH	

TOTAL: 197500. 100.00

# SOURCE IMPORTANCE (LOC 3)

SOURCE	1./1/CI) Come ime	FEISHORTFALL CRITICALITY		WIRMALIZE: 10 100
FINLAND MORODOO BOTSWANNA SOUTH AFRICA ZAIRE PHILIPPINES AUSTRALIA NEW CALEDOWIA CANADA U S	3 343 1 429 1 671 0 601 30,950 0 259 2 070 1,293 1 813 8 394	7 81 7 81 7 81 7 81 7 81 7 81 7 81 7 81	16, 11 11, 16 13, 05 4, 69 241, 74 2, 01 16, 16 10, 10 14, 16 45, 47	10 65 4,5 5,34 1 50 56 50 6 62 4 1 5 5 76
TIN AUSTRALIA U S THAILAND INDONESIA HK PULIVIA PRAZIL FRO MALAYSIA	0. 141 9. 319 9. 483 9. 322 0. 075 15. 548 4. 125 1. 793 38. 414	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0 01 0 01 0 00 0 00 0 00 0 00 0 00 0 00
FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U.S GREECE NETHERLANDS FRG YUGOSLAVIA USBR DOM REPUB: GUATAMALA INDONESIA	0, 171 1, 381 1 785 8 924 17, 054 11 311 0, 101 0, 034 0, 017 0 084 1 742 3, 230 0, 861 1 785	10 00 10 00	1 71 13 81 17 85 8° 24 170 54 113 11 1 01 0 34 0 17 0 84 17 42 82 61 17 85	0 70 5 60 7 31 3 5 6 69 81 46 30 0 14 0 07 0 34 7 13 13, 22 3 53 7, 31
FLUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	11, 91 14, 43 22, 19 15, 24 7, 0°
F 'RETHRUM SOUTH AFRICA AUSTRALIA UN: KENYA RWANDA TANZANIA	0, 852 0, 825 2, 842 56, 855 17, 747 55, <b>4</b> 33	4, 30 4, 30 4, 30 4, 30 4, 30 4, 30	3, 66 3, 55 12, 21 244, 29 76, 34 238, 18	

# SIUPCE IMPORTANCE RANNED BY SOURCE (LOS 3)

į.			
	SOURCE	COMMULITY	VALUE -
	FENYA	PYRETHRUM:	100.00
	ZAIRE	COBALT .	98, 96
:	TANZANIA	PYRETHRUM	97 50
	CANADA	NICHEL	65 E1
	SOUTH AFRICA	FLUDRBHAR ACID	송틴 등속
	MEXICO	FLUORSPAR ACID	5의 57
;	U 5	NICHEL	44 31
	AUSTRALIA	NICHEL	36 53
	RWANDA	FYRETHRUM	31 25
	US	COBALT	2ం.జెం
	SEAIN	FLUORSPAR ACID	22 10
		FLUORSFAR ACID	15 2a
:	ITALY	FLUORSPAR ACID	14 43
1	DOM REPUB	NICHEL	13 22
7 5,	U.S.	FLUORSPAR ACID	11. 91
1		COBALT	10.69
	- INDONESIA	NICKEL	7 31
<i>!</i> 		-	7 31
:	PHILIPPINES	NICKEL	7.13
•	USSR	NICHEL	7. 42 7. 09
	THAILAND	FLUORSFAR ACID	
Ĺ	AUSTRALIA	COBALT	6 62
,		OFEALT	5. 78
š	SOUTH AFRICA	NICHEL	5. 65
4	BOTSWANNA	COBALT	5. 34
Ε,	LH.	PYRETHRUM	5. 00
••	MORGOOD	CONALT	4.57
,	NEW CALEDONIA	COBALT	4 13
=	GUATAMALA	NICHEL	명, 변경 1
۳	SOUTH AFRICA	COBALT	1. <u>5</u> 2
.)		FYRETHRUM	1, 50
1	AUSTRALIA	FYRETHRUM	1 45
7	PHILIPPINES	COBALT	0,83
;	FINLAND	NICKEL	0. <b>7</b> 0
4	GREECE	NICKEL	O. 41
<u>-</u> ,	YUGGSLAVIA	NICKEL	0. 34
٠.	NETHERLANDS	NICKEL	0.14
.•	FRG	NICKEL	0, 07
8:	MALAYSIA	TIN	Q. QO
,		TIN	0.00
1	ERAZIL	TIN	0, 00
ì	BOLIVIA	TIN	0, 00
?	UK	TIN	o. <b>o</b> o
	INDONESIA	TIN	0.00
4	THAILAND	TIN	0.00
5	US	TIN	0. 00
_	AUSTRALIA	TIN	0,00
ē	US	TIN	0.00
	<b>▼</b> •	· •· •	• • •

SCENARIO 22

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WEIGHTS on REGION by LEVEL of CONFLICT and MELIA
                    Level of Conflict 3 Media 1
                                                  6
                                                                               1
            f
 Region
 الماون ا
                                          7 O
                                                          2 0
                                                                 50
                                                                         2 0
           10.0
                   10.0
                          7, 0
                                  5 0
                                                  2.0
   raier o 1783 o 1784 o 1286 o 6883 o 1256 o 6887 o 6887 o 6887 o 6888 o 6857 o 1688
                    Level of Contlict 3 Media 2
 មិនផ្លូវ ១១
សិទ្ធវ ១១
            1
                                                                 8:
           11
                           9. 0
                                   4.0
           10.0
                   10.0
                                          7.0
                                                  5.0
                                                          1.0
                                                                 8. 0
 Wilght
           9. 0
 Weight
  ) <mark>coef o. 1333 o 1</mark>333 o. 1200 o. 0533 o. 0933 o 0647 o. 0133 o 1067 o. 0933 o 0447
  1-100EF 0.1200
                     Level of Conflict 3 Media 3
                                          5
                          3:
                                   4
 Facion:
            1
                                                 1.
                          10.0
                   10.0
                                   2. Q
                                                 4
                                                         \mathbf{S} = \mathbf{O}
           10.0
                                          6.0
 √ laht
 1 COEF 0,1786 0,1785 0,1786 0,1429 0,1071 0,0714 0,1425
                    Level of Conflict 3 Media 4
 E gion
            1
                           2.0
           10.0
                   4. O
                                   1.0
 k_light
 I/COEF 0 5882 0.2853 0.1174 0 0583
               INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
                or the Importance of Controlling EACH region within its with
 M dia 1
 Region
 I COEF 0 0228 0 0228 0 0160 0 0114 0 0160 0 0046 0 0046 0 0114 0 004.
   di a
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                                                                  ε
                                            5
                     \mathbb{Z}
                             3
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   ឲ្យ០៧
             1
  Media 11
  S gion
  1월 COSE 0.0171 0.0171 0.0154 0.0068 0.0119 0.0085 0.0017 0.0154 0.011€ U.∪...
  I/COEF 0.0154
  Media 3
  F gien
  I/COEF 0,0228 0,0228 0.0228 0.0183 0.0187 0.0091 0.0183
  Media 4
🎒 🥂 gion
  I COEF 0.0752 0.0301 0.0150 0.0075
  Thertance of controlling ANY Region
  u thin its Media as compared to the Importance
  of controlling ANY Region of any other Media
 Media 1
  F sion
  I COEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0050 0.0020 0
  Media 2
                                            5
                                                           7
                                                                   8
                                                                                 10
  Figion
                     2
                             3
                                    4
                                                    6
              1
  M dia 11
  Region
  I/COEF 0,0037 0,0037 0,0033 0,0015 0,0026 0,0019 0,0004 0,0030 0,0026 0 0019
  I COEF 0.0033
  Média 3
                             3
  Region
  I COEF 0,0060 0,0060 0,0060 0,0048 0,0036 0,0024 0,0048
  M dia 4
  Region
                     2
              1
  I COEF 0.0065 0.0026 0.0013 0.0007
```

# FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	FORCE ELEMENT	CALCULATEL	NORMALIZED
RAN IND	NUMBER	NAME	VALUE	VALUE
1	17	CARRIER BATTLE GROUP	0.141	10,000
<u>~</u>	1	AIR INTERFICTION:	0 117	
3	3	ARMY GROUND	0.104	<b>7</b> 380
4		ATTACK SUBS	0. 072	5, 135
5	1日	SURFAIE COMBATANȚS	0.060	<b>4</b> . 24°
6		THEATER NUCLEAR MEARON	0. 054	3, 811
7	8	RAPIL DEPLOY	0, 052	3 <b>7</b> 06
8	Ŀ	CAS	0,044	9 192
9	14	ASW(LAND BASED)	0. 043	3 053
10	22	AIR SUPERIORITY(LAND PA	SED) 0.041	2 910
11		ASW(SEA BASED)	0.023	
12	23	AIR SUPERIORITY(SHIP BA	SED) 0.032	2 27-
13	2.1	AIR DEFENSE(SHIP BASEL)	Q (j2 %	
14	10	STRATEGIC BOMBER	0, 025	1 754
15	25	SPOE BASED WEAPONKAIR O	NTEL ) 0. 020	1.414
1 6	ু/ <del>२</del>	ABAT(SPACE BABED)	0.013	0.914
17	18	ABAT(SPACE BABED) MINE WARFARE	0.013	0.881
18	2	AMERIE10US ASSAULT	0.011	0.75
19	13	SPECIAL OPERATIONS	0.010	0.725
20	28	ABAT(LAND BASED)	0.007	0.510
21	20	AIR DEFENSE(LAND BASED)		
22	9	SPUE-BABED WEAPON(LND C	NTRL)O, 013	6 212
23	30	SPCE BASED WEAFON(SEA C	NTEL)O OOD	0.118
24	27	ABM(SPACE BASED)	0.000	O. OGC
25	26	ADM(LAND BASED)	0.000	0.000
26	24	INTERCEPTOR AIFCRAFT	0,000	0.000
27	11	SLEM	0, 000	Q. 000
28	7	ICBM	0.000	0.000
29	5	CIVIL DEFENSE	0, 000	0.000
30	4	CEW	0.000	<b>Q</b> . <b>Q</b> QQ

# COMMODITY IMPORTANCE (LOC 3)

# CORALT

AIR INTERDICTION	5 71
ARMY GROUND	4 52
CAS	1 75
ICBM	$\langle -0 \rangle$
STRATEGIC BOMISE	1 7 2
SLBM	0.00
ASW(SEA BASEI)	1, 27
CARRIER BATTLE GROUP	10. QQ
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2. 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	$\bigcirc -\bigcirc \bigcirc$
ABAT(LAND BABED)	0.51
	34, 99

# TIN

AIR INTERDICTION	5, 90
ARMY GROUND	1.92
CAS	1.51
STRATEGIC BOMBER	1. 7위
ASW(LAND BABEH)	3. 0±
ASW(SEA BASED)	1.11
ATTACK SUBS	5, 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	O. 89
SURFACE COMBATANTS	4 25
AIR SUPERIORITY(LAND BASED)	2. *1
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ABM(LAND BASED)	0.00
	41 18

# NICKEL

AIR INTERDICTION	5, 60
ARMY GROUND	4, 92
CAS	1.72
STRATEGIC BOMBER	1, 79
ASW(SEA BASED)	1.71
ATTACK SUBS	5. 13
CARRIER BATTLE GROUP	10, 00
MINE WARFARE	<b>0</b> . 89
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00

# FLUORSPAR ACID

AIR INTERDICTION	7, 13
AMARIFICUS ASSAULT	0.76
ARM: GROUND	3 69
CAS	2 05
ICEM	O OC
STRATEGIC BOMDER	1. 79
SLBM	0 00
ABW(LAND BASED)	3, 08
ASW(SEA BASED)	1.43
CARRIER BATTLE GROUP	10.00
SURFACE COMIATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2 29
INTERCEPTOR AIRCRAFT	Q. QQ
ABM(LAND BASED)	0.00
	영영 <b>5</b> 7

# FYRETHRUM

ARMY GROUND	2. 68
CIVIL DEFENSE	0.00
ASK(SEA RASED)	0.14
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
	17 0⊜

# COMMODITY NORMALIZED IMPORTANCE

NICKEL	10, 00	(	41, 21)
TIN	ର, ରଚ	(	41, 18)
FLUORSPAR ACID	9 60	(	39, 57)
COBALT	8, 49	(	34, 99)
PYRETHRUM	4 14	(	17 080

```
A-10
              CAS
                                                           72, 7336
COBRA
              CAS
                                                           48 4891
F-4
              AIR INTERDICTION
                                                          103, 5050
              046
                                                            7 2734
F-16
              AIR INTERDICTION
                                                           71,8785
              CAS
                                                           40, 4075
ART. ACRET CAS
                                                             3.6367
RADIO REAY AIR INTERDICTION
                                                             3, 2345
              CAS
                                                             2, 7275
F-111
              AIR INTERDICTION
                                                          129, 3813
A-6
              AIR INTERDICTION
                                                           38.8144
F-15
              AIR INTERDICTION
                                                           57, 5023
A-7
              AIR INTERDICTION
                                                           51, 7525
F-14
              AIR INTERDICTION
                                                           43, 1271
F-18
              AIR INTERDICTION
                                                           71 8785
SH-3:
              ASW(SEA BASED)
                                                             る。ロフフラ
SH-2
              ASW(SEA BASED)
                                                            15, 1937
SH-60B
             ASW(SEA BASED)
                                                           23, 6346
8-3
              ASW(SEA BASED)
                                                           34, 7284
              ASW(SEA BASED)
ATT. SUBS
                                                           24, 1169
FRIGATES
              ASW(SEA BASED)
                                                           14, 4701
DETROYERS
              ASW(SEA BASED)
                                                            8. 6821
M-43
              ARMY GROUND
                                                           37, 9669
M-60
              ARMY GROUND
                                                           61,0182
              ARMY GROUND
n-1
                                                           67, 7980
              ARMY GROUND
                                                             0.2260
M-901
              ARMY GROUND
                                                           54, 2384
              ARMY GROUND
M-2/M-3
                                                           47, 4586
M-113
              ARMY GROUND
                                                            5, 2732
MLRS
              ARMY GROUND
                                                           20, 3394
TOWED ART.
             ARMY GROUND
                                                           27, 1192
SELF-PROP.
              ARMY GROUND
                                                           36, 1589
PERSHING
              ARMY GROUND
                                                           18, 0795
GLCMS.
              ARMY GROUND
                                                           30, 1324
INFANTRY
              ARMY GROUND
                                                            7, 5931
MORTERS
             ARMY GROUND
                                                           36, 9122
ROLES LNOH ARMY GROUND
                                                             1,5820
                                             00000
7478
6681
3333
0000
7945
7948
7948
6847
8240
8240
8240
                                                                        5721
3974
1743
1184
                                6216
5556
2402
7162
4446
                                           1921
                          VORMALIZED VALUES
                                                                                        FIL AY
                                                      A-6
M-48
MORTERS
SELF-PROP.
                                                                  ART.
SUBS
                                                                                 DSTROYERS
                                                                                   INFANTRY
SH-3
RADIO RL(
M-113
                                                                         MLRS
PERSHING
                                                                               RIGATES
                                                                                            5
                                                                    ATT. SI
SH-60B
                                         F-15
M-901
A-7
COBRA
M-2/M-0
                                                              5-3
GLCMS
                                                                  TOMED
                             -16
                                 A-10
F-13
                                       M-60
                                                    7-14
                                                                             SH-2
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COBALT

lo

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TIN
A-10
            CAS
                                                    72 7336
COSEA
            CAB
                                                    44 6523
F-4
            AIR INTERDICTION
                                                   103 5050
            CAS
                                                     7, 2734
F-16
            AIR INTERDICTION
                                                    71,8795
            CAB
                                                    40.4075
ART. ACRET CAS
                                                     3, 6367
3, 2345
RADIO RLAY AIR INTERDICTION
            CAS
                                                     2, 7275
F-111
            AIR INTERDICTION
                                                   129, 3813
A-6
            AIR INTERDICTION
                                                    43, 6562
F-15
            AIR INTERDICTION
                                                    57, 5028
A-7
            AIR INTERDICTION
                                                    51.7525
            AIR INTERDICTION
F-14
                                                    48 5180
F-18
            AIR INTERDICTION
                                                    80,8633
SH-3
            ASK(SEA BASED)
                                                     5, 2073
SH-2
            ASW(SEA BASED)
                                                    13,0231
SH-60B
            ASW(SEA BASED)
                                                    20, 25%2
9-3
            ASW(SEA BASED)
                                                    34, 7284
ATT SUBS
            ASW(SEA BASED)
                                                    14, 4701
FRIGATES
            ASW(SEA BASED)
                                                    14, 4701
            ASW(SEA BASED)
DETROYERS
                                                     8 6801
            ARMY GROUND
M-48
                                                     4, 2185
                                                     6.7799
M-60
            ARMY GROUND
M-1
            ARMY GROUND
                                                    37 6655
MHSSI
            ARMY GROUND
                                                     0.0703
M-901
            ARMY GROUND
                                                     6 7798
MHIZMHE
            ASMY GROUND
                                                     6. 7793
M-113
            ARMY GROUND
                                                     0.7533
MURE
            ARMY GROUND
                                                    10 1697
TOWED ART
            ARMY GROUND
                                                     4, 5199
SELF-PROP
            ARMY GROUND
                                                     6,0265
PERSHING
            ARMY GROUND
                                                    15, 8195
GLCMS
            ARMY GROUND
                                                    26, 3659
                                                    60, 2649
INFANTRY
            ARMY GROUND
MORTERS
            ARMY GROUND
                                                     5, 2732
ROLES LNOH ARMY GROUND
                                                     0.2260
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7

: :	10,0000	8, 6787	8, 5622	6, 2500	5, 6216	4,9970	4, 6579	4. 4444	4,0000	3, 7500	3, 3750	2.9112	2, 6842	2, 0378	1, 5658	1, 2227	1.1184	1.1184	1, 0066	0, 7860	0, 6710	0, 5240	0, 5240	0, 5240	0,4658	0,4608	0.4076	0.40%	0.3490	0 3241	0.2011	79000	100	000
NORMALIZED VALUES	F-111	F-1&	F-4	F-18	A-10	CORRA	INFANTRY	F-15	A-7	F-14	A-6	Δ-1	<b>0-0</b>	GLCMS		Z	E	8		MLRS	DSTROYERS	M-2/M-3	H-901	M-60	PRO-	RADIO RLAY	ů.	00 1 H 00	TOWED ART	M-40	ART ACRET		TONI CHICA	Ļ.,

NICHEL		
A-10	CAS	72 7336
COBRA	CAS	48 4891
F-4	AIR INTERDICTION	77 6288
	CAS	E 455
F-16	AIR INTERDICTION	71, 8785
	CAS	40 4075
ART ACRET		2,4145
PADIO REAY	AIR INTERDICTION	3, 2345
	CAS	2 7275
F-111	AIR INTERDICTION	129, 3813
A-6	AIR INTERDICTION	39, 8144
F-15	AIR INTERDICTION	57, 5028
A-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	48, 5180
F-18	AIR INTERDICTION	80, 8633
SH-3	ASW(SEA BASED)	6. 9457
SH-2	ASW(SEA BASED)	17. 8442
SH-60#:	ABW(SEA BABED)	27, 0109
9-3	ASW(SEA BASED)	34 7284
ATT. SUPS	ASW(SEA BASEI)	43, 4104
FRIGATES	ASW(SEA PASED)	26, 0463
DSTROYERS	ASW(SEA BASED)	15 6278
M-48	ARMY GROUND	42, 1854
M-60	ARMY GROUND	<b>67. 7</b> 980
M-1	ARMY GROUND	<b>7</b> 5. 3311
M-551	ARMY GROUND	0. <b>75</b> 93
M-901	ARMY GROUND	47, 45B6
M-2/M-3	ARMY GROUND	54, 2384
M-113	ARMY GROUND	5, 2732
MLRE	ARMY GROUNI	20 3394
TOWED ART	ARMY GROUND	36, 1539
SELF-PROP.	ARMY GROUND	48, 2119
PERSHING	ARMY GROUND	18, 0795
GLCMS	ARMY GROUND	22 5993
INFANTRY	ARMY GROUND	37, 6655
MORTERS	ARMY GROUND	15, 8195
FOLES LNOH	ARMY GROUND	0 2260

1 3

																															0.1874	
NORMALIZED VALUES F-111	F-16	F-4	F-18	<b>M</b> −1	A-10	M-60	F-15	M-2/M-3	A-7	F-14	COBRA	SELF-PROP.	M-901	ATT SUBS	M-48	A-6	INFANTRY	TOWED ART.	00 100	SH~60B	FRIGATES	GLCMS	M.R.0	PERCHING	71年の	MORTERS	DOTROYERS	9H+9	RADIO RLAY	M-110	ART ACPET	

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FLUORSPAR ACID
                                                    90 9170
01-6
            CAE
                                                    48 48-1
COERA
            CHE
F-4
            AIE
                INTERDICTION
                                                   129, 3813
                                                      9 0917
            043
F-16
                INTERDICTION
            AIE
                                                    운영, 음4음1
            CAS.
                                                    50, 5094
AF:T.
     ACRET
           CAS
                                                      3. 6367
RADIO RLAY AIR INTERPICTION
                                                       2340
            CAE
                                                      2. 7275
F-111
            AIR INTERPICTION
                                                    161 7266
A-6
            AIR INTERDICTION
                                                    48, 5180
F-15
            AIR INTERDICTION
                                                    71 8780
A-7
            AIR INTERDICTION
                                                    64. 6906
F-14
            AIR INTERDICTION
                                                    53
                                                       9089
F-18
            AIR INTERFICTION
                                                        8481
                                                        9457
SH-3
            ASW(SEA BASED)
                                                      Ŀ.
9H-2
                                                     17 3642
            ASW(SEA BASED)
SH-60E
            ASW(SEA BASED)
                                                     33. 7437
9~3
            ASW(SEA DASED)
                                                     43 4104
ATT.
     SUBS
            ABW(BEA BABED)
                                                     28 9403
                                                     20 2582
FRIGATES
            ASW(SEA BASED)
                                                     12, 1549
DISTROYERS
            ASM(SEA BASED)
                                                     12, 6556
M-49
            ARMY GROUND
            ARMY GROUND
                                                     20, 3394
M-60
                                                     22, 5993
M-1
            ARMY GROUND
M-551
            ARMY GROUND
                                                      0 2260
            ARMY GROUND
                                                     54, 2384
M-901
M-2/M-3
            ARMY GROUND
                                                     54, 2384
M-113
            ARMY GROUND
                                                      6. 0265
MLRS
            ARMY GROUND
                                                     16, 9495
                                                     22, 5993
TOWED ART.
            ARMY GROUND
            ARMY GROUND
                                                     30, 1324
SELF-FROM
PERSHING
            ARMY GROUND
                                                     15, 8195
GLOME
            ARMY GROUND
                                                     26, 3559
INFANTRY
            ARMY GROUND
                                                     60, 2649
                                                     26 3659
MORTERS.
            ARMY GROUND
                                                      0. 2260
ROLES LNOH ARMY GROUND
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NORMALIZED VALUES

1 3

7895 6303 6303 3974 2526 0737 0480 9782 7825 7516 4295 7263 3557 3557 3533 0000 9982 6842 39**74** 2576 6216 5556 **4444** 0000 0877 8632 5622 ಪಯಗಳಿಕ್ಕೆ ಅಪಪಪಟ್ಟಿಸ PAPIO FLAY SUBS **STROYERS** SELF-PROP TOWED ART CALHOUSE FRIGATES INFANTRY MORTERS 4-2/M-3 309-H6 A-6 COBRA SHOUS M-113 4-901 09-W MLR® A-10 F-13 F-16

PYRETHRUM
ATT. SUBS ASW(SEA BASED)
M-48 AFMY GROUND
M-60 ARMY GROUND
M-113 AFMY GROUND
TOWED ART. ARMY GROUND
SELF-PROP. AFMY GROUND
INFANTRY ARMY GROUND

ARMY GROUND

14 4701

# NORMALIZED VALUES

MORTERS

INFARTEM	10 0000
M-60	6, 3000
SELF-PROF.	5 6000
MORTERS	<b>4</b> 9000
TOWED ART	4 2000
M-48	3, 9200
ATT. SUBS	1, 9209
td-113	0.7000

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ALL COMMODITIES
A-10
            045
                                                        0912
CODEA
            CA:
                                                        1011
            AIR
                INTERDICTION
                                                        1400
                                                        2905
F-16
            AIR INTERDICTION
                                                        0543
            C # 3
ART. ACRET CAS
                                                        1983
RADIO RLAY AIR INTERDICTION
                                                      Ō,
            CAE
                                                        1071
F-111
            AIR INTERDICTION
                                                        4---
                                                      5
A-6
            AIR INTERDICTION
                                                      1
                                                        4991
F-15
            AIR INTERDICTION
                                                        44 :
4-7
            AIR INTERDICTION
                                                        1005
F-14
            AIR INTERDICTION
                                                        9467
F-18
            AIR INTERDICTION
                                                        2345
SH-3
            ASW(SEA BASED)
                                                      0 2518
SH-2
            ASW(SEA BASED)
                                                      0 6295
SH-60E
            ASW(SEA BASED)
                                                      1 0497
9-3
            ASW(SEA FARED)
                                                        4760
            ASW(SEA BASED)
ATT
     SUBS
                                                      1 2541
0. 7524
FRIGATES
            ASW(SEA BASED)
DSTROYERS
            ASW(SEA BASED)
                                                      0 4515
M-48
            ARMY GROUND
                                                        2456
M-40
            ARMY GROUND
                                                      2 03<sup>99</sup>
2 0379
11-1
            ARMY GROUND
M-551
            ARMY GROUND
                                                      0.0103
M-901
            ARMY GROUND
                                                      1 6272
M-2/M-3
            ARMY GROUND
                                                      1 6272
M-119
            ARMY GROUND
                                                      0 2260
MURB
            ARMY GROUND
                                                      ひころフミロ
TOWED ART.
            ARMY GROUND
                                                      1, 2204
SELF-PROP
            ARMY GROUND
                                                      1 6271
PERSHING
            ARMY GROUND
                                                      Q. 6780
GLOMS
            ARMY GROUND
                                                      1. 0544
INFANTRY
            ARMY GROUND
                                                      2 4106
MORTERS
            ARMY GROUND
                                                      1 2128
ROLES LNOH ARMY GROUND
                                                      0. 0226
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64789 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 6538 NORMALIZED VALUES F-111 HOUTED THEH RADIO RLAY SELF-PROP. M-2/M-3 M-901 SH-2 INTROYERS ACRE ATT. SUBS TOWED ART F-15 INFANTRY PERSHING MORTERS FRIGATE 309-H3 COERA SHOUSE %-0 M-40  $\frac{\omega}{1}$ M-60 F-14 -16 9-10 A-7 9-6

CRITICALITY OF SHINTFALL

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(		(_	3	)

1	3.	GDAL	FILE	FALL	TEZTIL	FE/ TMOTITY		(16) 는 하는 그 1일 (17) (18년 - 18) 전기관기 (17)
	COMMODITY							CRITITALIT.
	CIEALT	85 4	43 8	-45 7	402, 5	8, 5	3418.1	
	T. N	$\mathbf{z} \subset \mathbf{Q}$	194 6	253 S	$\bullet \circ$	10.0	Q. O	$\hat{\varphi} = \hat{P}$
	NICHEL	200-0	P2 2	-53 P	437, 7	10.0	4377 1	
1	FL WORSPAR ACID	14百0 ①	8355 0	-BL 1	ଞ୍ଛଳ ନ	⊕	3 ⁷ 44 3	₹ 6
	F RETHRUM	500 O	$\hat{\mathbf{O}} = \hat{\mathbf{O}}$	-100 O	453.8	4 1	1890.7	4 3

COMPOSITE IMPORTANCE (LOC 3)

# COPALT

SOURCE Z IRE ZUMBIA CANADA L E	si	AMOUNT UPPLIED 12500. 2800 1100. 1000	% OF TOTAL 71, 47 16, 57 6, 29 5, 71	COMPOSITE IMPORTANCE 1 92 0.71 2.89 2.54	1/01 0,510 1 404 0 346 0 391	%(1/II) 27 14: 13 140 2 175 2 13
	TOTAL:	1 <b>7</b> 500	100, 00			

COMPOSITE IMPLATABLE (LOC 3)

# MIT

S.URCE AUSTRALIA U.S. T.AILAND INDONESIA UK E'LIVIA B.AZIL PRC M1LAYSIA	AMOUNT SUPFLIED 100. 16100. 5900. 5800. 100. 10300. 2400. 3000.	% OF TOTAL 0, 15 23, 82 8, 73 8, 58 0, 15 15, 24 3, 55 4, 44 35, 36	COMPOSITE IMPORTANCE 0, 92 2, 56 0, 92 1, 96 0, 98 0, 86 2, 47 0, 92	1/01 1, 087 0, 391 1, 087 1, 087 0, 510 1, 020 1, 162 0, 405 1, 087	%(1/C1) 0 161 0 161 0 319 9 322 0 075 15 548 4 125 1 796 38,414
II CHISIH	20700.		V. / -	2. 0.0.7	

TOTAL: 67600. 100.00

# COMPOSITE IMPOSTANCE (LOC 3)

	NICHEL				
PURCE FINLAND COUTH AFRICA CHILIPPINES HUSTRALIA CANADA IS PECCE NETHERLANDS IS USOBLAVIA USOR FOM REPUB FUATAMALA INDONESIA		% OF TOTAL O. FB 1 64 1 64 1 64 28.91 O. 07 O. 07 O. 07 O. 06 1.44 4.53 1.64	00MP081TE 1MP08TANCE 1 92 1, 19 0, 92 0, 92 2 56 1 96 1 96 1 96 1 98 0 94 1, 53 0, 92	1.201 0.520 0.841 1.087 1.087 0.344 0.391 0.510 0.510 0.510 1.041 0.453 0.454	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	TOTAL: 304400.				
	CUMPOSITE (LOC 3)	E IMEDATANO	TE .		
	FLUCRSPAR	R ACID			

SOURCE SOUTH AFRICA US ITALY TOAIN ENST AFRICA THAILAND		AMOUNT SUPPLIED 180 70. 45 100. 25. 15.	% OF TOTAL 21 36 8.70 8.07 12 42 3.11 1.86	1 17 2, 56 1, 96 1, 96 0, 71	1/01 0.841 0.891 0.510 0.510 1.404 1.087	%(1/01) 10 803 8 402 4 120 4 300 4 309 2 025
MEXICO		350.	43, 48		0.371	17 011
	TOTAL:	805.	100, 00			

# COMPOSITE IMPORTANCE (LOC 3)

# FYRETHRUM

EJURCE SOUTH AFRICA AUSTRALIA UT FONYA RWANDIA	AMOUNT SUPPLIED 2000, 1500, 11000, 80000, 25000,	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66	COMPOSITE IMPORTANCE 1.19 0.92 1.96 0.71 0.71	0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01) 0 852 0 825 2 842 56 8 0 17 767
TANZANIA	<b>7</b> 8000.	ଞ୍ଚ, <b>4</b> ୭	0.71	1.404	55 433
	TOTAL: 197500.	100.00			

# BOURCE IMPORTANCE (LOC 8)

SOURCE	%/1/61) COMP IMP	FEYBHORTSALL ORITICALITY	TOTAL	NORMALITED -TO 100
C BALT ZAIRE ZAMBIA CANADA U S	27, 148 23, 260 2, 175 2, 236	7, 81 7, 81 7, 81 7, 81 7, 81	290, 09 181, 64 16, 99 17, 46	
TIN AUSTRALIA U S THAILAND INDONESIA UN BOLIVIA BRAZIL PRI MALAYSIA	0 161 9 319 9 493 9 322 0 075 15 548 4 125 1 796 35 414	0,00 0,00 0,00 0,00 0,00 0,00 0,00	0, 01 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	
FINEANI SOUTH AFFICA FHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM REFUE GUATAMALA INDONESIA	0, 171 1 301 1 785 9 914 17, 054 11 311 0, 101 0, 034 0, 017 0 084 1, 742 3, 230 0, 841 1, 755	10, 00 10, 00	1 71 13 81 17, 85 85, 24 470, 54 113 11 1, 01 0, 34 0, 17 0, 84 17, 42 32, 30 8, 41 17, 85	0.59 4.74 6.15 30.79 38.99 0.35 0.12 0.04 0.14 11.14 2.97 6.10
● FLUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8.55 8.55 8.55 8.55 8.55 8.55 8.55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	10, 03 12, 15 18, 69 12, 85 5, 97
FYRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0 852 0 825 2 842 56 855 17 767 55 433	4.30 4.30 4.30 4.30 4.30 4.30	3, 66 3 55 12, 21 244, 29 76, 34 238, 18	1, 22 4, 21 84, 21 26, 32

# SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

1 3

		· · · · · · · · · · · · · · · · · · ·	1100 115
= #	SQURCE	COMMIDITY	VALUE 100.00
1	ZAIRE	CODALT .	94 Ç1
2	KENYA	PYMETHRUM .	82.11
3	TANZANIA	FYRETHRUM CORAL T	42.61
<u>4</u>	ZAMPIA	NICHEL	58 7°
5	CANADA	FLUGBYFAR ADII	55 45
<u> </u>	SOUTH AFRICA	FLUOPSPAR ACID	50.16
7	MEYICO	NICHEL	ଞିକୁ <u>ନି</u> ହା
8 9	U.S.	NICHEL	30, 76
	AUSTRALIA	EAKETHE/NW	26, 32
10	RWANDA	FLUORSPAR ACID	18 69
1	SPAIN		12 83
12	EAST AFRICA	FLUGRERAR ACID	12 15
13	ITALY	NICHEL	11. 14
4	DOM. REPUE.	FLUORSPAR ACID	10, 03
.5	US	NICKEL	6, 15
16	INDONESIA PHILIPPINES	NICHEL	6. 15
.7 [:8		COBALT	<b>6</b> , 02
	USAR USAR	NICKEL	6, 01
20 18	THAILAND	FLUORSPAR ACID	
2.1	CANADA	COPALT	5 86
22 22	SOUTH AFRICA		4. 76
23	UM:	FYRETHRUM	4, 21
4	GUATAMALA	NICKEL	2 97
25	SOUTH AFRICA	PYRETHRUM	1 26
26	AUSTRALIA	FYRETHRUM	1, 22
27	FINLAND	NICKEL	0 5୍
28	GREECE	NICKEL	0, 35
29	YUGOSLAVIA	NICKEL	0, 29
30	NETHERLANDS	NICKEL	0.12
31	FRG	NICKEL	0, 04
32	MALAYSIA	TIN	0.00
33	PRC	TIN	0.00
34	ERAZIL	TÎN	<b>o</b> . oo
35	BOLIVIA	TIN	0.00
36	ÜK	TIN	<b>O</b> . OO
37	INDONESIA	TIN	0. 00
3(8)	THAILAND	TIN	<b>0</b> , <b>0</b> 0
39	นร	TIN	<b>0</b> . <b>0</b> 0
40	AUSTRALIA	TIN	0, 00

SCENARIO 23

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                   Level of Conflict 3 Media 1
Begion
                   \mathbf{Z}
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k rati
                        7 o
                                                10.0 10
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                 10.0
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1/COEF 0.1563 0.1563 0.1094 0.0781 0.1094 0.0781 0.1094 0.1563 0.0313 0.0781 0.0313 0.0913
                   Level of Conflict S Media 2
           1
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                                                                8
   100
          11
Weight
          10.0
                 10^{\circ} \, \odot
                          \Phi_{i}(0)
                                  4 0
                                         7 0
                                                 5.0
                                                        10.0
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           9.0
INCOSER 0.1190 0.1190 0.1071 0.0478 0.0883 0.0570 0.1180 0.0952 0.0883 1.05 5
1 COUF 0, 1071
                   Level of Conflict 3 Media 3
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Was oft
                 10.0 10.0 10.0
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         10.0
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I/COEF 0. 1667 0. 1667 0. 1667 0 1667 0. 1000 0. 0667 0. 1667
                   Level of Conflict 3 Medic 4
F. gion
           1
Weight
         10.0
                  Z. ()
                          2. 0
                                  1. 0
1, COEF 0, 5882 0 2053 0, 1176 0, 0583
              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
              or the Importance of Controlling EACH region within its own Media
Midia
Region
                                                                 \varepsilon
I COEF 0 0200 0 0200 0 0140 0.0100 0.0140 0 0200 0 0040 0 0100 0 0040
                                                                            \{0, \dots, 1, 1\}
M dia
                   2
                           3
Region
            1
                                   4
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Media 11
 Trion
1700EF 0.0152 0.0152 0.0137 0.0061 0.0107 0.0076 0.0152 0.0122 0.0127 0.0076
I/COEF 0 0137
Mydia 3
Figion.
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I/COEF 0.0213 0.0213 0.0213 0.0213 0.0213 0.0128 0.0085 0.0213
Madia 4
Figion
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            1
I/COEF 0.0752 0.0301 0.0150 0.0075
I portance of controlling ANY Region
within its Media as compared to the Importance
of controlling ANY Region of any other Media
M dia 1
F gion
                   2
                           3
                                          5
                                                  ۴.
                                                                 8
I/COEF 0.0087 0.0087 0.0061 0.0043 0.0061 0.0087 0.0017 0.0043 0.0017 0.0052
Midia 2
F.gion
            1
                   2
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                                                                                1
Media 11
Region
INCOEF 0.0033 0.0033 0.0030 0.0013 0.0023 0.0017 0.0033 0.0026 0.0023 0.0023
Incoef 0,0030
Media 3
F gion
I COEF 0.0054 0.0054 0.0054 0.0054 0.0033 0.0022 0.0034
Media 4
Figion
I/COEF 0.0065 0.0026 0.0013 0.0007
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# FORCE ELEMENT IMPORTANCE (LOG 3)

	ELEMENT	FURGE ELEMENT	CALCULATE:	NUMBER OF TRANSPORT
RANKING	NUMBER	NAME	VALUE	VALUE
1	17	CARRIER BATTLE GROUP	0.130	10.00.
<del>-</del> .	:	ASP INTERLICTION	0.110	.7. 8 s
3	3	APTO GREAKE	0. 095	- 6, 84f
4	1 <	ATTACK SUBS	0.073	5 200
5	1 🔊	SUPFACE COMBATANTS	0.060	4 290
é.	٤	RAPID LEPLOY	0 058	4 149
7	12	THEATER NUCLEAR WEARCH	Q Q54	
8	14	ASW(LAND BASED)	Q Q43	
ଚ	Ŀ.	CAS	0.040	2 902
10	, mar in in in in in in in in in in in in in	AIR SUPERIORITY/LAND BA		
11	15	ASMISEA BASED)	0.032	
1.	23	ASE DEFECTABLEY SHIP DA	25 <b>E</b> 10 0 030	1 135
13	21	AIR DEFENSE SHIF DASEL		
14	10	STRATEGIC POMBER	0.023	
15	20	SPCE BASED WEARDNIAIR (	INTEL 10, 019	
1.6	13	SPECIAL OPERATIONS	0.010	
, –	29	ASAT(SPACE PASED)	0.013	
18	18	MINE WARFARE	0.013	$\mathbf{O}$ $-\Theta\mathbb{D}A$
1 c.	2	AMPHIBIOUS ASSAULT	0.10	
20	<b>28</b>	ASAT(LAND BASED)	0, 007	
1994 <b>4</b> 44	20	AIR DEFENSE (LAND BASED)		
	•	SPOE-BASEI WEARDMYLND (		
23	30	SPCE BASED WEAPON(SEA (		
24	27	ABM(SPACE BASEL)	<u> 0</u> 000	
<b>25</b>	24	ABM (LANI) BABED)	0.000	• • •
24	24	INTERCEPTOR AIRCRAFT	0.000	
27	1 1	SLEM	0.000	
28.	7	ICEM	0. 000	
	<u> </u>	CIVIL DEFENSE	0.000	
30	4	CBW	0 000	$\mathbf{O} = \mathcal{O} \mathcal{O} \mathcal{O}$

# IOMMODITY IMPOFTANCE (LOC 3)

# COPALT

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2.	16
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# MIT

AIR INTERDICTION	5. 61
ARMY GROUND	1.78
CAS	1.77
STRATEGIC BOMBER	1. 74
ABW(LAND BABED)	3.00
ASW(SEA BASEI)	1 11
ATTACK SUBS	5.23
CARRIER BATTLE GROUP	10.00
MINE WARFARE	0.81
SURFACE COMBATANTS	4, 29
AIR SUPERIORITY(LAND BASED)	2, 73
AIR SUPERIORITY(SHIP EASED)	2.16
INTERCEPTOR AIRCRAFT	0.00
ABM(LANI BASED)	0, 00
	40.47

# NICKEL

AIR INTERDICTION	5. 33
ARMY GROUND	4. 56
CAS	1.60
STRATEGIC BOMBER	1.76
ABW(SEA BASED)	• - i
ATTACK SUBS	5 23
CAFRIER BATTLE GROUP	10.00
MINE WARFARE	0. 92
SURFACE COMBATANTS	4 29
AIR SUPERIOFITY(LAND BASED)	2 73
AIR SUPERIORITY(SHIP BASED)	2.16
INTERCEPTOR AIRCRAFT	0.00
	40 30

# FLUORSFAR ACID

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AIR INTERMITTION	± 7-
AMPHIBIOUS ASSAULT	0.71
ARMY GROUND	3 42
C. 4I	1 50
3 CEM	0,00
STRATEGIC BOMDER	1, 76
SLBM	Q. 00
ASW(LAND BASEI)	3 05
ASW(SEA BASED)	1 42
CARRIER BATTLE GROUP	10.00
SURFACE COMEATANTS	4 29
AIR SUPERIORITY(LANI DATED)	2.73
AIR SUPERIORITY(SHIP BASED)	2 16
INTERCEPTOR AIRCRAFT	0.00
ABM(LAND BASED)	0.00
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# PYRETHRUM

2 42
Q OO
Q. 14
10,00
<b>4</b> , 29
1.4 002

### COMMODITY NORMALIZED IMPORTANCE

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TIN	10.00	(	40.47
NICKEL	9, 96	(	40, 30)
FLUORSPAR ACID	9, 51	(	38, 50)
COPALT	8, 40	(	33, 99)
PYRETHRUM	4 18	(	16 921

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0021L
A-10
            CAE
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98 5202
COPEA
            CAE
                 INTERDICTION.
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F-16
            AI5
                 INTERLIGITION
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            CAB
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     ACRET
ART.
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RADIO RLAY AIR INTERIITTION
            CAS
                                                       2, 5276
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F-111
            AIR INTERDICTION
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                INTERDICTION
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A-6
            CIE:
            AIR INTERDICTION
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F-15
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A-7
            AIR INTERDICTION
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F-18
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            AIR INTERDICTION
SH-3
            ASW(SEA BASED)
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94-2
            ASW(SEA BASED)
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SH-60F
            ASW(SEA BASED)
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9-3
            ASW(SEA BASED)
                                                     34, 6761
ATT.
     SUPS
            ASK(SEA BASED)
                                                     24, 0907
FRIGATES
            ASW(SEA BASED)
                                                     14, 4484
DETROYERS
            ASW(SEA BASED)
                                                      8. 6690
            ARMY GROUND
M-48
                                                     35, 2006
M=60
            ARMY GROUND
                                                     56, 5724
            ARMY GROUND
                                                     62, 8582
M-551
            ARMY GROUND
                                                      O. 2095
                                                     50 2866
M-901
            APMY GROUND
M-2/M-3
            AFIMY GRIDUND
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            ARMY GROUND
M-113
                                                      4
                                                         8890
MLRE
            APMY GROUND
                                                     18, 8575
TOWED ART.
            ARMY GROUND
                                                     25, 1433
SELF-PROF.
            ARMY GROUND
                                                     33, 5244
PERSHING
            ARMY GROUND
                                                     16, 7622
GLCMS
            ARMY GROUND
                                                     27, 9370
INFANTRY
            ARMY GROUND
                                                      6.9842
MORTERS
                                                     34 0223
            ARMY GROUND
ROLES LNOH ARMY GROUND
                                                       1.4667
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50000 50000 50000 50000 50000 50000 50000 9554 9163 9313 9611 2319 1788 7039 6488 5723 3333 0000 8588 8158 7789 7222 2685 0417 4552 3970 0834 0000 4028 NORMALIZED VALUES RADIO KLAY Sans 77.55 SELF-PROP TOWED ART PERSHING FRIGATES DSTROYER NEANTRY MORTERS COBRA M-2/M-3 SH-60B GLCMS M-113 M.R.O 9-6

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TIN
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                  INTERDICTION
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ART.
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RADIO RLAY AIR INTERDICTION
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A-6
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             AIR INTERDICTION
F-15
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              AIR INTERLICTION
A-7
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              AIR INTERDICTION
F-14
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5, 2014
              AIR INTERDICTION
F-19
              ASR (SEA MASEE)
88-3
                                                          13 0036
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              ASW(SEA BASED)
SH-2
SH-60E
              ASW(SEA BASED)
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8-3
              ASW(SEA BASED)
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              ASW(SEA BASED)
ATT.
      SUDE
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              ASW(SEA BASED)
FRIGATES
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              ASW(SEA BASED)
DETECYERS
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              ARMY GROUND
M-48
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              ARMY GROUND
M - 60
                                                          34, 9212
              ARM - GROUND
M-1
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              ARMY GROWNI
M-551
                                                            6, 2859
M-901
              ARMY GROUND
                                                            6. 23.3
              ARMY GROUND
M-2/M-3
                                                            0. 6984
              ARMY GROUND
M-113
                                                            9, 4267
              ARMY GROUND
MLRS
                                                            4, 1905
TOWED ART.
              ARMY GROUND
                                                            5, 5874
              ARMY GROUND
SELF-PROP
                                                           14.6669
              ARMY GROUND
PERBHIND
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              ARMY GROUND
GLCMS
                                                           55, 8740
INFANTRY
              ARMY GROUND
                                                            4,8890
              ARMY GROUND
MORITERS
                                                            0.2095
ROLES LNCH ARMY GROUND
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7 3

4224 **6425** 1910 1732 1732 0559 7636 5104 2104 4552 4537 2000 4444 0000 7500 3750 8158 9850 27 TE 5473 2500 2104 4732 8651 5371 44446663666666 44400000-VORMALIZED VALUES PILLES LINCH ACEFT FADIO RLAY USTROYERS M-2/M-3 SELF-PROP. TOWED ART FRIGATES DALLO BLA INFANTRY **MURTERS** SH-60B S-3 GLCMS M-901 ATT. COERA F-111 2H-2 09-W F-15 **₩** F-18 F-14 PET F-16 A-10 F-4 A-7 A-6

ralit Er CAE A-10 CAE COERA 4.75 INTERDICTIO F-4 LAB INTERDICTION £.15. F-16 CAE ACRET CAS AF.T. INTERBICTION AIR RADIO RLAY CAS AIR INTERDICTION F-111 FIR INTERITION 4-6 AIR INTERDICTION F-15 AIR INTERTICTION 4-7 AIR INTERDICTION F-14 AIR INTERDICTION F-15 ABW(SEA BASED) 2H-3 ASW(SEA EASED) €H-2 ASW(SEA BASED) SH-60B ASW(SEA BASED) 9-3 ANW (SEA BASE!) 91,139 ATT ASR(SEA BASED) FRIGATES ASW(SEA BASED) DETROYERS ARMY GROUND 11-49 ARMY GROUND M-60 ARMY GROUNI M-1ARMY GROUND M-551 ARMY GROUND M-901 ARMY GROUND M-2/M-3 ARMY GROUND M-113 ARMY GROUND MLRE ARMY GROUND TOWED ART. ARMY GROUND SELF-PROP. ARMY GROUND FERSHING ARMY GROUND GLCMS ARMY GROUND INFANTRY ARMY GROUND MORTERS ROLES LNCH ARMY GROUND

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F-16
            AIR INTERDICTION
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RADIO RLAY AIR INTERDICTION
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            CAS
            AIR INTERPOOTION
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            AIR INTERDICTION
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F-15
            AIR INTERDICTION
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A-7
            AIR INTERDICTION
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F-14
            AIR INTERMICTION
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F-18
            AIR INTERDICTION
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2H-3
            ABW(SEA FABER)
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SH-2
            ASW(SEA BASEI)
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            ASW(SEH PASED)
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9-3
            ABW(BEA BABED)
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ATT SUBS
            ABW(SEA BASED)
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FRIGATES.
            ASW(SEA BASED)
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DETROYERS
            ASW(SEA BASED)
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M-48
            ARMY GROUND
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M-60
            AFMY GROUND
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11-1
            ARMY GROUND
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            ARMY GROUNT
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M-901
            ARMY GROUND
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            APMY GROUND
M-1/M-3
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M=113
            ARMY GROUND
                                                      5, 5874
MURB
            ARMY BROUND
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TOWED ART
            ARMY GROUND
                                                     20, 9527
            ARMY GROUND
SELF-PROP
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PEREHING
            ARMY GROUND
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GLCMS
            ARMY GROUND
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INFANTRY
            ARMY GROUND
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MURTERE
            ARMY GROUND
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ROLES LNOH ARMY GROUN
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NORMALIZED VALUES F-111 F-16 F-18 A-10 F-15	A-7 INFANTRY F-14 M-2/M-3 M-901	A-6 COBRA S-3 SH-60B ATT SUBS SELF-PROP MOSTERS	GLCMS TOWED ART. M-1 FRIGATES M-60 SH-2	MLFS PFRSHING INSTROVERS M-48 SH-3 FADIO RLAY M-118 ART ACRET FULES LNCH

PYRETHRUM
ATT, SUIS ASW(SEA BASED)
M-43 ARTH GROUND
M-113 ARTH GROUND
M-113 ARTH GROUND
10451 ARTH GROUND

SELF-PROP. AFRY GROUND INFANTRY AFRY GROUND

MORTERS AFMY GEOUND

NORMALIZED VALUES

10, 0000 INFARTRY 4, 3000 MHEC SELF-PROP. 5, 6000 MORTERS 4 5000 4, 2000 TOWEL ART. 3, 9100 M-49 ATT. SUBS 2.0657 0.7000 M-113

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              AIR INTERPICTION
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F-4
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9177
              CAE
F-10
              AIR
                  INTERDITION
              巨声音
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AFT.
      ACRET CAS
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RADIO RLAY AIR INTERLICTION
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              CAE
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F-111
              AIR INTERBILITION
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1.2000
2.0036
1.8473
4-6
              AIF: INTERDICTION
              AIR INTERDICTION
F-15
              AIR INTERDICTION
A-7
              AIR INTERDICTION
F-14
                                                             3 0783
F-13
              AIR INTERDICATOR
                                                             0. 2514
Sept. 3
              ASW(SEA BASEE)
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5-4-5
              ABRESEA EAREIN
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              ASWIESA FIRED
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(E. → B)
              ARW(SEA BASEIN)
                                                             1, 2522
ATT.
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              ASK(SEA BASED)
                                                             0.7513
FFIGATES
              ASW(SEA BASED)
DETROYERS
              ASW(SEA BASED)
                                                             0.4509
                                                             1.1734
M-45
              ARMY GROUND
                                                             1 8897
\{a_1^{k_1},\dots,a_{k_n}\}
              ARMY GROWNIN
              AFM - GF DUICE
                                                             1 8957
m-1
                                                             O. 0119
11-531
              AFMY GROUND
                                                             1,5084
M-901
              ARMY GROUND
M-1/M-3
                                                             1.5056
              ARMY GRUUNT
                                                             0, 2095
11-113
              AFTY GROWNE
                                                             0. 6296
MILFIE
              ARMY GROUND
TOWED ART
              ARMY GROUND
                                                             1.1314
SELFFAGE
              ARMY GROUND
                                                             1 5036
PERSHING
              ARMY GROUND
                                                             0.6286
                                                             0.9778
GLONE
              ARMY GROUND
                                                             2, 2350
INFARTEY
              ARMY GROUND
                                                             1, 1245
MOFTERS
              ARMY GROUND
FOLES LNCH ARMY GROUND
                                                             0.0210
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NORMALIZED VALUES

8602 4805 2010 2010 2010 40.05 6000 6000 5204 0002 8004 %>√ 0445 8874 4782 4444 2702 0000 720**4** <u>ಅಥಕ್ಷಕರದಲ್ಲಿ ಅಭಿವರಗಳ ಭರಗಳ ಗೆಗೆಗಳ</u> FILAY 1.13.00 9H-Z DSTROYERS 9116 SELF-PROP TOWED ART FRIGATES PERSHING MLRS INFANTRY MORTERS A-6 M-2/M-3 M-901 3H-60E KANJO 11-113 SMITH COERA F-111 M-40 F-18 A-10 09-M F-16 F-4 F-15 F-14 7:10 A-7 1 I-M

CRITICALITY OF SHORTERS:

ALL FEES
(LOT 2)

STOCK SHOOT

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=				<b>→</b> ∠	コミシブ ん	4 4

COMPCSITE IMPOSTANCE (LOC 3)

COPALT

COMMODITY

F UDBERAR ACID HYRETHRUM

CUBALT TIN M⇔CHEL

SUUFCE FINLAND MURDCOO E TSWANNA SUUTH AFRICA JAIRE FALLIPFINES AMETRALIA NEW CALEDONIA CONADA UNS		ANDOR T SERREIED 1950. 450 150 1500 400. 250 1100 1000	N OF TOTAL 7: 71 2: 87 1: 43 0: 88 7: 43 0: 29 1: 43 6: 29 5: 71	00mm0F17E 1MFURTANIE 1 70 2 08 1 76 2 71 4 72 0 82 0 82 2 61	0.560 0.457 0.569 0.412 0.560 1.1.1 1.216 1.216 0.383	2.617617 1.277 2.277 2.273 4.1271 6.377 2.777 1.737 2.471
<b>4</b>	TOTAL		100.00	2 31	0.432	2 471

COMPOSITE IMPOSTANCE (LOC 3)

TIN

BOURCE AUSTRALIA J Th (ILAND INDONESIA JR. IVIA BRAZIL PRC 14 AYSIA	AMGURT SUPPLIED 100. 16100. 5900. 5800. 1000. 2400. 3000. 23900.	% OF TOTAL 0.15 23.82 8.73 8.58 0.15 15.24 3.55 4.44 35.36	COMPOSITE IMPORTANCE 1/ 0.82 1.2 2.31 0.4 0.82 1.2 0.82 1.2 1.76 0.5 0.90 1.1 0.90 1.1 2.33 0.4 0.82 1.2	16 0 180 82 10 299 16 10 611 16 10 431 69 0 084 17 17 014 17 8 864 29 1 800
•				42

T01AL: 67600. 100.00

# COMPOSITE IMPORTANCE (L00 3)

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/ <u>1</u> / E	임상편에 스킨팅다		1880-Take E 1/01	
FINLAND	1.000	0.33	1 72 0, <b>5</b> 80	49 1 5 1
SUITH AFRICA	5000.	1.64	2.31 <b>0.4</b> 32	O 7:.
FE LIPPINES	<b>5</b> 77760	1 64	0.8I <b>1.21</b> 6	<u> </u>
4 A TRALIA	<u> 7</u> 00 3000	8 21	0.82 1.216	: •
Dana Ada	<b>15</b> 00000	47 29	2 51 0 383	1: :
LE :	\$19.00G	28, 91	2 31 0,432	11 501
GN EECE	<b>€</b> 00	0.20	1 75 O 569	40. 4.1.7
NETHERLANDE	260	0.07	1 75 O 569	Q Q : `
Ft.	\$ 400)	0.00	1 구석 - 이 투교학	0.00
Y BUSLAVIA	50.	0.16	1.75 0.55%	€ -£ -
USSE	5000	1 64	0.84 1.140	<u>1</u> ਹਵਾਲੇ
DT 1 REFUE	<b>15</b> 000	4 93	1 38 0 727	1 E.,
BI TAMELA	<b>4</b> 000	1.31	1,38 0 727	) 6.5
INDUNEBIA	<b>50</b> 00	1. 64	0.82 1.146	1 711 /
[·	TOTAL 304400	100.00		

COMPOSITE INFORTANCE 4.<u>11</u>111 1

# FLUDREFAR ATIT

SOUFIE		AMBUNT SUMPLIED	% 06 101 AL	COMPOSITE IMPORTANCE	1/01	%(1/EJ)
TS UTH AFRICA		10.7	22 Ba	2 31	0.471	<b>5</b> € 1 €
· [4] · [4]		7.0	8.70	2, 31	0.432	3.74.
TALY		65	8, 07	1 76	0.569	4 597
ismain (E.ST AFRICA		1000	12.41	1.75	Q. 569	7 073
		<u> 25.</u>	3 11	1.76	Q. 569	1 763
THAILAND		15.	1.84	0, 82	1, 216	2 2 5
ME:100		350	43.43	2 31	0.432	18 801
	TOTAL	805	100.00			

COMPOSITE IMPORTANCE (LOC 3)

# FYRETHRUM

	AMOUNT	% OF	COMPOSITE		
S JRCE	SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/CI)
SOUTH AFRICA	2000.	1.01	2, 31	0. 432	0.4୧୧
AUSTRALIA	<b>15</b> 00.	0. 76	0,82	1.216	O 923
U	11000.	5, 57	1. 76	0. 569	3 171
F KYA	80000	40 51	1. 76	0. 569	23 043
RWANDA	25000.	12 66	1.76	O. 589	7, 207
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	TOTAL: 197500.	100 00			

SOURCE IMPOFTATION (LOC 9)

S SUPPEE	MILITI) DOMENTARE	REVEHORTRALL CRITICALITY		NORMALIZE: TO 100
FINLAND MOROCCO FOTSWANNA SOUTH AFRICA ACSTRALIA NEW CALEDONIA CANADA	4 477 1 252 0 917 0 971 41 451 0 947 2 770 1 797 2 4 9 2 471	7 74 7 76 7 76 7 76 7 76 7 76 7 76 7 76	94 72 9. 71 6 91 2 97 821, 49 21 55 18 47 19 60 11 16	10 81 3 CL 1 92 2 C 11 C 11 C 0 84 6 70 4 15 5 32
AU:TEALIA U S THAILAND INIONESIA UN BUCIVIA BRAZIL ARC MALAYSIA	0 180 10 299 10 611 10 471 0 084 17 014 3 864 1, 903 42 933	0 00 0 00 0 00 0 00 0 00 0 00 0 00	0, 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0 0. 0 00 0 00 0 00 0 01 0 00 0 00 0 00
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FOURSPAR ACID SOUTH AFRICA U S ITALY SFAIN EAST AFRICA THAILAND MEXICO	9, 669 3, 760 4, 597 7, 073 1, 769 2, 265 18, 801	8 51 8 51 8 51 8 51 8 51 8 51	82, 28 32, 00 39, 12 60, 19 15, 05 19, 28 159, 98	
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27	GUATAMALA	NICKEL	2.00
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28 29	POTSWANNA	COBALT	1 %
30	AUSTRALIA	PYRETHRUM	1 25
31	SOUTH AFRICA	COBALT	Q 81
31 32	PHILIPPINES	COFALT	0.82
33 33	SOUTH AFRICA	PYRETHRUM	$Q = \frac{\mathbf{E}_{i}(Q)}{2}$
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34	GREECE	NICKEL	0.35
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